

Construction



JANUARY 1950

Southern construction last year was at its peacetime peak. Value of contracts let in the sixteen states below the Mason and Dixon line was \$3,205,021,000, a figure that is within twenty per cent of the all-time record established in the war year of 1942.

The total embraced \$1,365,957,000, or forty-three per cent for privately financed projects, and \$1,839,064,000, or fifty-seven per cent for public construction. Included in the non-government figure is \$952,513,000 for private building and \$413,444,000 for private industrial projects, this latter showing a drastic drop.

Private building, as such, was the largest constituent in the twelve-month total. Its most substantial part, or sixty-seven per cent, was the \$638,692,000 for residential construction.

Public building amounted to \$748,485,000; engineering construction, \$374,116,000; roads and bridges, \$488,463,000.

December's \$445,116,000 was the second highest in southern construction history.

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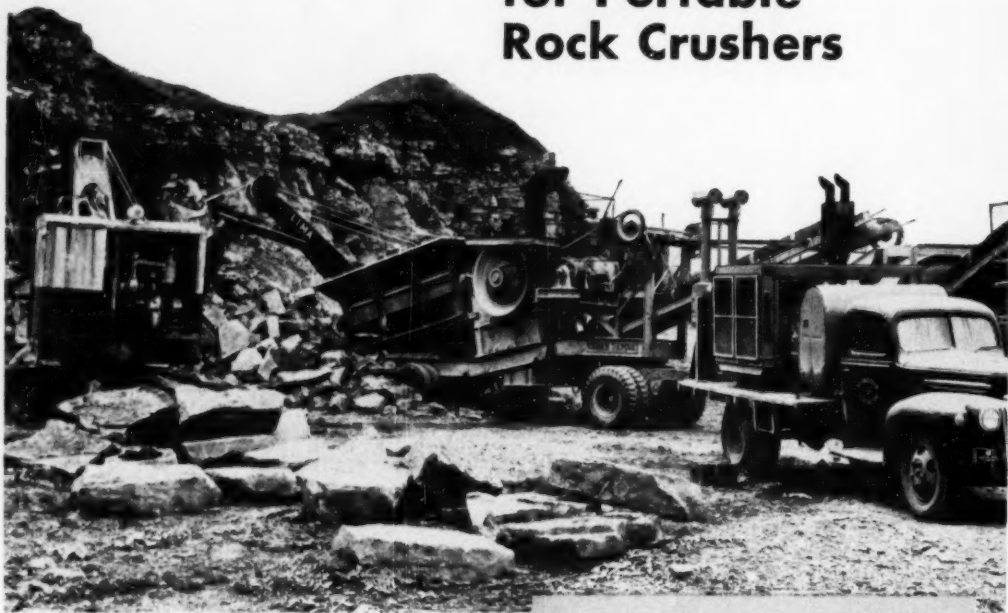
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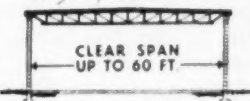
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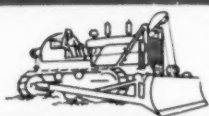
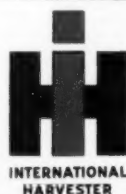
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Hot news from the "grapevine": J. W. Mosely, contractor on the big Grapevine Dam project near Dallas, Texas, says of his International TD-24's, "In my estimation, the International TD-24 crawler tractor is the new champion of crawlers."



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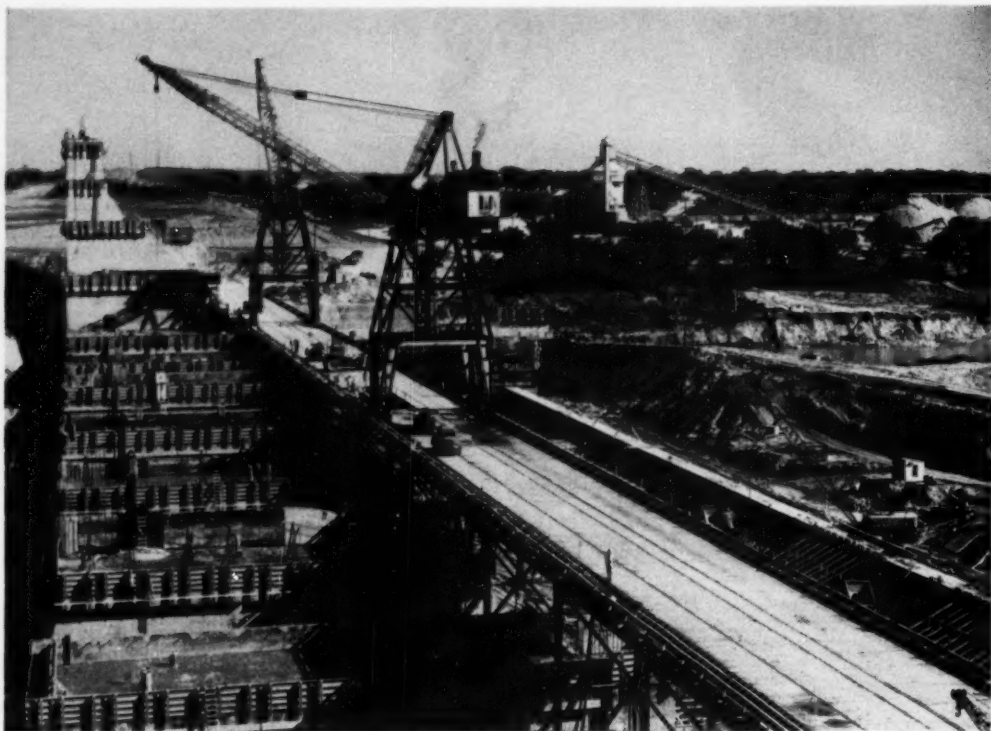


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Above—\$42,000,000 Whitney dam being constructed on the Brazos River, near Waco, Texas, is approaching the half-way mark, according to Lt. Col. Ellsworth I. Davis, under whose supervision the project is being carried out. The revolving cranes are used to place the concrete which is mixed in the plant shown in the background.

\$3,205,021,000 for 1949 Construction Highest Recorded in Southern Peacetime History

SOUTH'S CONSTRUCTION BY TYPES

	December, 1949 Contracts Awarded	December, 1949 Contracts to be Awarded	Contracts Awarded Twelve Months 1949	Contracts Awarded Twelve Months 1948
PRIVATE BUILDING				
Assembly (Churches, Theatres, Auditoriums, Fraternal)	\$5,977,000	\$17,945,000	\$117,641,000	\$124,407,000
Commercial (Stores, Restaurants, Filling Stations, Garages)	4,111,000	11,360,000	90,090,000	104,310,000
Residential (Apartments, Hotels, Dwellings)	89,986,000	87,154,000	638,692,000	460,313,000
Office	8,738,000	7,180,000	111,090,000	44,170,000
	\$108,812,000	\$125,639,000	\$952,513,000	\$733,200,000
INDUSTRIAL	\$200,160,000	\$73,147,000	\$641,444,000	\$587,971,000
PUBLIC BUILDING				
City, County, State, Federal and Hospitals	\$36,683,000	\$429,911,000	\$413,559,000	\$274,850,000
Schools	34,692,000	137,313,000	332,926,000	354,499,000
	\$71,377,000	\$267,226,000	\$748,485,000	\$629,349,000
ENGINEERING				
Dams, Drainage, Earthwork, Airports	\$9,700,000	\$36,371,000	\$160,354,000	\$203,149,000
Federal, County, Municipal, Electric	2,280,000	76,219,000	88,978,000	64,619,000
Sewers and Waterworks	13,441,000	14,556,000	124,784,000	142,257,000
	\$25,421,000	\$147,146,000	\$374,116,000	\$410,325,000
ROADS, STREETS AND BRIDGES	\$39,346,000	\$238,639,000	\$488,463,000	\$469,193,000
TOTAL	\$443,116,000	\$849,792,000	\$3,205,021,000	\$2,830,838,000

SOUTHERN construction last year rose to the highest levels for any comparable peacetime period. Bolstered by a record December total of \$445,116,000, the value of contracts awarded below the Mason and Dixon line for the first time, except during one war year, passed the three billion dollar mark.

The \$3,205,021,000 for the twelve months of 1949 was thirteen per cent greater than the \$2,830,038,000 for the preceding year and about twenty per cent within equalling the \$3,877,848,000 for the year of 1942, when wartime construction pushed construction in the sixteen southern states to an all-time peak.

December's \$445,116,000 was also a second high in southern construction history. The total was but eleven per cent below the \$496,651,000 record for a single month established in April of 1942. Only four other times has a monthly value of southern construction touched the four hundred million dollar mark. These were the \$434,131,000 for April, 1941, and the

\$440,273,000, \$444,197,000 and \$403,148,000 for May, June and July, all in 1942.

Principal factor in pushing the December figure to the high postwar peak was the award for \$162,000,000 gaseous diffusion facility at Oak Ridge, Tenn. The fourth unit at that center of atomic activity—a third costing \$66,000,000 is now under construction there—the new unit will greatly contribute to increased production of Uranium-235.

Maxon Construction Co. is the contractor for both atomic projects, which are the largest such in the country.

Tennessee Valley Authority's new steam electric generating station at New Johnsonville, Tenn., partly an outgrowth of the atomic energy program, will ultimately cost \$54,000,000, although the first unit now being built will involve only a fraction of that amount. A second similar plant in Alabama proposed by that same federal agency would cost \$37,000,000.

The \$3,205,021,000 for southern construction embraces \$1,365,957,000, or forty-three per cent for privately financed projects, and \$1,839,064,000, or fifty-seven per cent for public construction. The former includes \$952,513,000 for private building and \$413,444,000 for industrial projects without the atomic plants. In the public work are \$748,485,000 for public building, \$374,116,000 for engineering projects and \$488,463,000 for highways and bridges.

Largest constituent of the twelve-month total was the \$952,513,000 for private building, the substantial part, or sixty-seven per cent, being the \$638,692,000 for residential construction, including apartments and hotels. Assembly buildings and office structures were close rivals with the former amounting to \$112,641,000 and the latter, \$111,090,000. Commercial building totaled \$90,090,000.

Residential construction in 1949 was more than thirty-eight per cent above the value registered for such work in the preceding twelve months. Industrial construction, including the \$228,000,000 atomic energy facilities, was up about nine per cent, compared with the value of similar construction the year before. Private industrial construction, however, showed a drastic drop.

Public building, as such, was the largest component in the publicly financed construction field. The \$748,485,000 total, which is eighteen per cent higher than the value for 1948, includes \$415,559,000 for government buildings and hospitals and \$332,926,000 for schools. The latter represents an eight per cent drop.

Highway and bridge construction in the South was higher in 1949. The \$488,463,000 total was four per cent above its 1948 counterpart. Texas, as in former years carried on the largest program, with Maryland's activity in second place. The latter state during the year inaugurated construction on the \$41,000,000 Chesapeake Bay span, the first to connect the divided shores of the state.

Engineering construction was the one main category where a decrease was registered for the twelve months. The

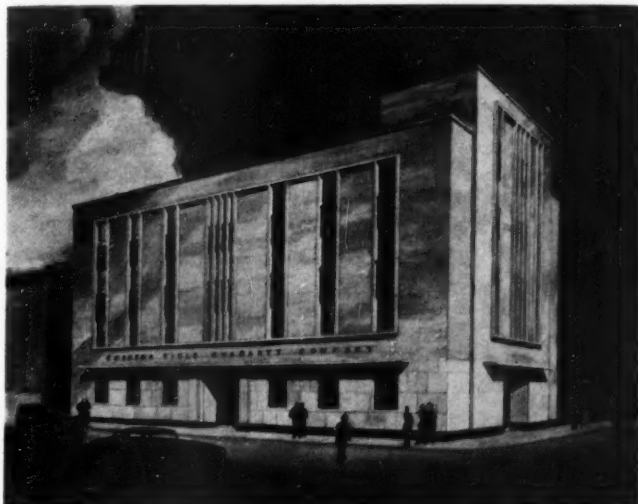


Above—New water plant at Forest City, N. C. Designed by Harwood Beebe, prominent engineers of Spartanburg, S. C., the plant has a raw water pumping station consisting of an intake structure at the bank of the river and a brick pump house with a concrete wet well connected to the intake with an 18-inch gravity pipe line. The filter plant has a capacity of 1,440 g. p. m., slightly over two m. g. d.

SOUTH'S CONSTRUCTION BY STATES

	December, 1949 Contracts Awarded	December, 1949 Contracts to be Awarded	Contracts Awarded Twelve Months 1949	Contracts Awarded Twelve Months 1948
Alabama	\$10,678,000	\$131,835,000	\$89,075,000	\$129,906,000
Arkansas	1,418,000	11,225,000	70,427,000	78,781,000
Dist. of Col.	1,773,000	1,220,000	61,761,000	46,530,000
Florida	16,381,000	54,737,000	248,862,000	271,387,000
Georgia	10,237,000	21,191,000	130,757,000	123,294,000
Kentucky	4,510,000	22,495,000	97,830,000	64,566,000
Louisiana	23,735,000	60,614,000	259,608,000	234,391,000
Maryland	36,364,000	114,023,000	310,046,000	203,636,000
Mississippi	5,749,000	17,654,000	107,775,000	80,971,000
Missouri	36,919,000	49,345,000	132,592,000	124,896,000
N. Carolina	29,124,000	21,387,000	196,597,000	146,903,000
Oklahoma	5,767,000	109,933,000	94,263,000	122,420,000
S. Carolina	12,388,000	11,045,000	106,083,000	106,721,000
Tennessee	182,409,000	47,852,000	388,065,000	150,543,000
Texas	48,659,000	147,832,000	777,649,000	730,656,000
Virginia	6,234,000	21,981,000	117,932,000	112,467,000
W. Virginia	11,280,000	5,803,000	33,474,000	72,144,000
TOTAL	\$445,116,000	\$849,797,000	\$3,205,021,000	\$7,830,038,000

Below—\$500,000 stone-faced building being constructed at Houston, Texas by the Houston Title Co. Tellepsen Construction Co. is the contractor.



(Continued on page 42)



RFC and Public Works

Legislation authorizing construction of a four-lane, divided traffic toll turnpike between Oklahoma City and Tulsa (approximately 92 miles) was enacted by the Twenty-first Oklahoma legislature in 1947. The law created the Oklahoma Turnpike Authority but also prohibited the use of state funds in the construction, maintenance and operation of the turnpike. Cost of the project has been estimated to be \$33,000,000.

Private investment houses required that turnpike revenue bonds show a fifty percent margin of payout. Although surveys ordered by the authority showed a safe margin of payout, the margin did not equal the required fifty percent.

As a result of this limitation on borrowing from the customary business channels the Turnpike Authority has made application to the Reconstruction Finance Corporation for aid in financing the project. The proposal was presented to the RFC as being a self-liquidating public works project, which would return, with interest, all federal funds used in its construction.

The proposal involved the establishment of a new RFC policy, through which loans, which do not conflict with private financing, could be made to governmental units on self-liquidating public works projects, and carried by the RFC until such time as they may be deemed an acceptable investment for private financing. This represented a drastic departure from usual procedures in the financing of public works, such procedures in the past having been based largely upon outright federal grants-in-aid, none of which have been recoverable by the federal government.

The RFC is at present making an engineering survey of this novel proposal and if this survey supports the financial feasibility of the Oklahoma Turnpike, and it is believed that it will, indications are that the RFC will establish a policy through which a loan will be made. Such a policy would have great import upon future financing of self-liquidating public works.

Whether such projects will be financed jointly by the RFC and private capital is another policy that will have to be determined. It is the belief of those experienced in such matters that after the project has proved its financial soundness through a few years of operation, all of its outstanding bonds will find a ready private market.

Engineering the Belt Conveyor Installation

by
Harold Von Thaden

Vice President
Hewitt-Robins, Inc.

SINCE conveyor systems are such a vital part of so many other industries, it was decided to interpret the term "engineering," found in the title of this paper, in its widest sense. Therefore, I will discuss the broad principles involved. The ideas and installations I propose to discuss are a distillation of the thinking of five of the leading companies in the conveying industry—Chain Belt Company, Jeffrey Manufacturing Company, Link-Belt Company, Stephens-Adamson Manufacturing Company, and Hewitt-Robins, Incorporated, who all generously contributed to my request for information.

Our industry, a little over fifty years old, is one of the main forces of progress behind the construction, mining, manufacturing, and transportation fields. In sales volume, it has grown to an estimated \$200,000,000 a year. And that, many of us believe, is only a modest beginning.

What about this industry, you may ask. How has it come about? It was born because engineers with ability and imagination understood the necessity for the efficient handling of bulk materials. It is growing up all over the world. For wherever man and industry meet, materials handling problems perplex him.

Belt conveyors have lifted the faces of five continents, smoothing out wrinkles both large and small. Conveyors have spanned rivers, tunneled through mountains, and reached out under the sea. They are the backbone of modern industry.

To give you an idea of the almost daily challenge that must be met by the engineer in the conveying field, I should like to describe a few remarkable installations. The solution of these problems brings to mind the slogan so many young men brought back from their war service—"The impossible we do immediately. Miracles take a little longer."

Some twenty years ago, traffic in the city of Seattle was forced into a continual snarl by a massive and unsightly hill located almost in the heart of the business district. After twenty-five years of picking at the hill and hauling off the dirt had proved costly and slow, a belt conveyor was brought on the job. Erected above downtown streets, the conveyor ran twenty-four hours a day to carry away millions of yards of earth and dump them into the waters of Puget Sound. Meanwhile, life in the city went on with little inconvenience; few trucks were necessary, and practically no dirt fell upon the streets of downtown Seattle. Thus Denny Hill, as it was known, fell a swift victim to the belt conveyor.

In the same manner, conveyors have been used to undermine buildings needing foundation repairs. Over in New Jersey this summer a conveyor was used to haul out 15,000 cubic yards of dirt from a space with a headroom of only 10 feet. In this instance, conveyorization replaced slow, laborious hand-carting—the only other feasible method of removing the dirt.

These are spectacular projects, and there are others.

As long as twenty-five years ago, a large coal company at Brownsville, Pa., south of Pittsburgh, replaced an underground railroad of more than five and one-half miles with a belt conveyor system. Today, this system regularly delivers upwards of 1,800 tons of coal an hour from the work facings, through a mountain to waiting barges on the Monongahela River. This was more than a heavy materials handling achievement—this was a laboratory for a new concept in transportation. A similar installation—going into operation early this year near Morgantown, W. Va.—is remarkable for its single conveyor with 10,900-foot centers.

Conveyor installations in many other mines have helped make possible the fact that today, with a quarter of a million fewer miners than in 1920, we can dig 51,000,000 more tons of coal a year. Installation of some 1,000 miles of belt conveyors in our mines (with 4,000 miles to go for complete conveyorization) has enabled us to turn out six tons of coal per man day, as against a little over a ton a man day in England and less than a ton a day per capita in Germany and France.

The future of the coal mines seems to point toward even more mechanization, particularly if the normal demand for coal keeps to the trend of the past years. Significantly enough, Mr. John L. Lewis has announced himself in favor of more mechanization, as it has not only produced better working conditions for the miners but also has increased their productivity and consequently their standard of living. ♦ ♦ ♦ ♦

Not so long ago, conveyor systems further demonstrated their remarkable versatility by acquiring sea legs. Today, when shipping men are calling for marine architects and engineers to introduce new designs in ships to reduce the towering costs of cargo handling, the conveyor industry has developed self-unloading ships that can discharge 10,000 tons of bulk cargo and neatly pile it ashore in about five hours, with as few as three men handling the conveyors, and, if dock space permits, without the assistance of any shore-based equipment.

These ships need not be built specifically for self-unloading. Many very successful conversions have been made of cargo ships that have been operated for as long as 30 years by old-fashioned methods of unloading. In general, a self-unloader conversion consists of hopping the hold to serve two belt conveyors symmetrically arranged on either side of the ship's center line. These conveyors deliver to an inclined pan conveyor which carries the cargo to the deck. At this point it is discharged to a boom conveyor, the boom of which is pivoted to the deck and

carried by an "A" frame structure. Some of these booms are as long as 275 feet. It may be swung over the side of the vessel and topped up to any desired angle, within certain limits. The boom conveyor discharges the cargo on the dock or, if desired, into railroad cars or other ships.

Conveyorized shore installations also have materially aided the shipper in keeping down his bulk cargo handling costs. From the island of Spitsbergen, within a few hundred miles of the North pole, to the coast of Southern Chile, conveyors are mechanically loading ships with coal, iron ore, manganese, limestone and other bulk materials at rates of from three hundred tons an hour to ten thousand tons an hour. At this latter rate, dock-side spectators would almost think the ship was sinking. ♦ ♦ ♦ ♦

Our fabulous steel industry depends upon conveyor systems more heavily than many people realize. From the iron and coal mines and the limestone quarries, to the transportation facilities for these raw materials, to the bi-product coke ovens, to the handling of hot steel in the mills themselves, conveyors save millions of dollars and help make possible our vast annual steel tonnages.

Building of the great dams such as Grand Coulee and Shasta presented materials handling problems that called for the greatest ingenuity from conveying engineers.

At Grand Coulee in Washington they were called upon to transport the construction aggregates from the preparation plant across the Columbia River. After investigating and discarding all other means of transportation, engineers solved the problem by running a straight-line belt conveyor, composed of flights averaging 1000 feet in length. Taking land contours as they came, the conveyor carried 1000 tons an hour and finally jumped the river on a low-cost suspension bridge of about a 3500-foot span. Another conveyor system removed the principle excavation at a rate of 4000 tons an hour. If this operation had been attempted by truck it would have required a three-mile-long super-highway, filled with trucks at about 100-foot centers.

At Shasta, on the Sacramento River in California, engineers discovered that not only would the aggregate haulage fill six freight trains a day but many spur lines and sidings would have to be built, making the project too costly for the railroad. The ten-mile belt conveyor set up was able to handle the 12,000,000 tons of aggregate at a cost approximately one-third below the railroad.

After these successful and cost-saving experiences, it was natural that the same system be used in construction of the Bull Shoals dam in Arkansas. Today a seven-mile conveyor—the longest in operation today anywhere—is rolling steadily at the job of moving about 4,000,000 tons of aggregates needed to build this giant hydroelectric power project.

Bulk materials handled by belt conveyors need not be as rugged as rocks and
(Continued on page 14)

No body-hoist maintenance

● DUMPTORS HAVE NO BODY HOISTS

● DUMP IN ONE SECOND

● HAUL EXTRA YARDAGE EVERY SHIFT



KOEHRING DUMPTORS cut hauling costs and deliver extra yardage every shift because they have no slow-working body hoists. You trip the release lever and gravity dumps the load in one second. It's as simple as that! No complicated mechanical hoists to slow up haul cycles... no expensive replacement parts, costly hoist maintenance or down-time to eat into your profits. And gravity dump is instantaneous and trouble-free in all temperature extremes... never wears out.

No costly spring maintenance is another money-saving advantage you get with Koehring Dumptors. There is just one big, double-coil chassis spring on steering axle... none on drive axle. Big, shock-absorbing 16:00x24 tires eliminate need for more. You save spring maintenance time and replacement costs.

Check your body hoist and spring maintenance costs for a year... see how much you'll save by using Dumptors. What's more, Dumptor's no-turn, shuttle haul, and constant-mesh transmission for 3-speed travel forward and reverse, increase your production... and your profits.

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310 TRENCHLINER*

● You can dig trenches up to 15' deep . . . 54" wide with this big Parsons 310 Trenchliner. Extra-heavy-duty in every detail, it has 45 digging speeds, from 8" to 186" per minute. Telescopic boom is easily adjusted for depth . . . and shifts across full machine width, to cut within 14" of side obstructions. Power shifts arc-type spoil conveyor. 4 smaller Trenchliners also available. Write for additional information.

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JOHNSON

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ROADBUILDERS

BATCHERS

● For more speed in shipping and assembly, greater handling ease and faster batching, check these Johnson Roadbuilders All-Purpose Bin features: Easy-to-charge 11' bin width, extra-wide batcher fill and discharge valve openings, steep 50° bottom slopes for fast flow. Furnished with 2, 3 or 4 bin compartments in 50 to 125 cu. yd. capacities. Steel frame mat assemblies eliminate concrete footings for temporary set-ups. All-Purpose Bin with Hi-Speed Batcher shown.

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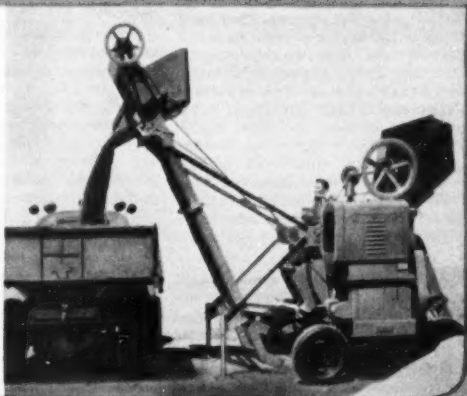
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BITUMINOUS

MIXERS

● A versatile, mobile bituminous mixer to fit any production problem. Special tower attachment discharges 14 cu. ft. batch above ground level for stockpiling or into trucks. Powered by mixer engine, hoist is mounted within mixer frame with single lever control on operators platform. Tower easily collapsed and positioned for ample road clearance. Other units: 4 sizes DANDIE concrete mixers, 2 sizes plaster-mortar mixers.

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KWIK - MIX
COMPANY, Port Washington, Wis.
(KOEHRING SUBSIDIARY)



Belt Conveyors

(Continued from page 11)

iron ore. I have in mind an installation on the Hawaiian Islands where both bulk and bagged sugar are carried from plantation to warehouse to shipboard by conveyors, and another at Port Sulphur, some fifty miles south of New Orleans, where sulphur is handled in a similar manner. Nitrates at Hopewell, Va., and fertilizer at Jacksonville, Fla., are also conveyor-handled.

The problem of conveying soft and oftentimes delicate bulk materials has been solved in some instances by a most ingenious adaptation of the conveyor belt—the "zipper conveyor." To the sides of a regular flat rubber and fabric endless belt, flexible rubber sidewalls have been hinged which can be sealed at the top by a method similar to the common zipper fastener. The belt, which is sealed and unsealed automatically, becomes a moving pipe when loaded and can be run around corners and elevated vertically. It has found numerous applications in a variety of specialized industries—a chemical plant where five different chemicals are conveyed without mixing; a plant where fragile, unfired ceramic pellets are carried without spillage; a dehydrating plant where cooked vegetables are carried quickly and hygienically, and a food plant where shelled almonds are carried without breakage. This new method of conveyerization is an example of materials handling engineers improving on themselves, for this enclosed conveyor-elevator, in some cases, has supplanted two conventional belt conveyors and a bucket elevator.

Some of the most imaginative installations of conveyor systems have been in under-water tunnels. One was in Boston where a conveyor had to carry materials one mile through a tunnel in such a way that an elevated air pressure peed in the tunnel could be maintained and the materials could be continuously carried through an air lock. In another installation on the coast of South America, a belt conveyor operates continuously in a mine tunnel and steals coal from a mile out under the Pacific Ocean.

All these are but a few of the varied uses of belt conveyor systems. They have one thing in common, however. Each is a separate entity with its own requirements and solution. Every materials handling problem has two phases: the best method of solution and the best equipment to accomplish that solution. Too often, particularly with younger engineers, method and equipment are considered synonymous. Existing equipment, however, is not always adequate. Then the conception, development, and fabrication of new equipment becomes a part of the engineer's task.

Nowhere is this better demonstrated than in the steel industry. To replace antiquated bin and bunker mixing and blending methods, conveying engineers have been called on to develop new systems for blending high and low grade iron ores to produce more efficient uniformity of furnace mix, and systems for blending coals of high and low volatility to pro-

duce a more uniform mixture of these coals for the manufacture of metallurgical coke. This blending of ores produces a regularity of product going to the furnaces that is amazing. The rarity of burden changes, such as limestone and coke, is astonishing. With proper blending, the job of altering the basicity of mixture going to the furnace is reduced because proper blending minimizes ore fluctuation. Since the introduction of blending systems for ores and coals, blast furnace results have improved tremendously, resulting in an increase of output better than five per cent. Metallurgical coke consumption has decreased about 300 pounds of coke per ton of iron produced from the furnace. In addition, the iron quality is improved and is of great regularity. This latter is a factor of paramount importance in the manufacture of steel.

The conveying industry has reached its present state by developing engineers from within. Where it goes in the future depends upon the resourcefulness of its personnel. What kind of engineer is required, then, for this job of solving the other fellow's problem?

At a time when the emphasis is on specialization, we need a man who is universal. It is true we need specialists, but our man must be a specialist in half a dozen fields. Rather than a jack of all trades, we need a master of many trades.

Most of the men needed to fill the increasing placement opportunities in the conveying field will have to come from the nation's engineering schools. At the collegiate level, they should have training in several fields of engineering: mechanical, electrical, and structural. In addition they will need some work in production methods, mineralogy, and metallurgy. After graduation, will come the slow, and often painful, process of gaining experience in any one, or all, of a dozen different fields which are the conveying engineer's province.

Academic training will never supplant the need for experience gained in the field. There is, however, no engineering school in the nation that is training men specifically for the conveying industry. • • •

But what of the future of this business which has been so aptly described as "blood, sweat, and tears, plus an expense account."

Economists tell us that there may be some leveling down of production from artificial war levels, but it is safe to presume, they say, that we are not going to fall to our prewar level of production. Increasing population, greater distribution of money and goods, a rising standard of living, all indicate that 1950 will surpass 1940, while the estimates for 1960 look even brighter.

At that time, with an anticipated labor force of 64 millions, it is believed that most lines of activity will be 15 to 30 per cent higher than in 1950. We must keep in mind, however, that our labor force will increase, but at a diminishing rate. If demands are to be met, and if we are to be prepared, we must mechanize at an even greater rate of increase. Many new kinds of machines must be created and many more miles of conveyors must be installed. • • •

The day of the widespread use of baggage conveyors is here at hand. At this moment, a major hotel chain is contemplating luggage conveyors running from street curb to hotel lobby.

While on the subject of railroad stations, I would like to point out an excellent example of the need for a conveyor system. • • • I refer to the subway train that shuttles weary, crowded passengers from Times Square to Grand Central station. Gentlemen, I believe that in our lifetime we will see that dirty, uncomfortable shuttle replaced by a moving sidewalk that will carry passengers quickly and safely between the two terminals. • • •

Along the same line would be a means to relieve the congestion of city traffic, particularly heavy trucks jamming the streets and turning sidewalks into unloading platforms. One remedy, which its backers claim will rid the streets of 25 per cent of the large trucks, is to build large trucking depots at the edges of the central business district. Goods would still have to move from stores to terminals, however, but why not have them move on a public conveyor system? Suspended overhead or running underground, such a system could operate on a charge per tonnage basis, paid for by the users. With a freight conveyor like this there would be little need for trucks on our streets.

The movement of both people and vehicles through the streets of our large cities is rapidly becoming a problem in materials handling. I believe the time has arrived when the civic development commissions of our great cities should have on their staffs a materials handling engineer, who can look at the handling of people as they move about a city as he looks at the handling of products as they are transported about a plant. • • •

In short, one of the greatest bugaboos of modern transportation systems is the confusion that springs up at terminals when passengers, baggage, and freight move on and off trains, trucks, ships, planes, and buses. The even flow of people and materials has not kept pace with the advances made in speed and efficiency of transportation.

With self-unloader ships, baggage conveyors, and ideas for moving sidewalks, a start has been made. But much more mechanization must take place before our arrival and departure confusion is resolved. Until this problem is solved, we have reached a point of diminishing returns in our transportation system at sea, rail, truck and airports. • • •

Perhaps the greatest challenge to the industry in the immediate future is the projected 130-mile belt conveyor system known as the Riverlake. With terminals planned for Lorain, Ohio, on Lake Erie and the Ohio River, and spur lines to Youngstown and Cleveland, the twin-belt system could carry 32,000,000 long tons of iron ore a year south from Lake Erie, and 20,000,000 tons of coal north to the lake. Annual savings of 20 to 45 million dollars, depending on tonnages, are anticipated. The conveyor would cut straight across the countryside, paying little respect to hill and dale, and offer a continuous and dependable means of delivering vital raw materials. • • •

Southern Construction Projects

ALABAMA

Bureau of Public Roads apportioned \$66,438.00 for federal aid highway work.

General Services Administration, Washington, D. C., approved post offices at Alabama City and Birmingham, \$6,600,000; Camden, Elba, Livingston, Tallahassee, \$200,000.

ALICEVILLE—Pickens County plans 20-bed hospital, \$170,000.

ANDALUSIA—Covington Electric Cooperative has REA loan, \$780,000, for system improvements, the line and 360 miles.

BAY MINNETTE—City let contract to Arthur Few Construction Co., Atlanta, Ga., for sanitary sewer extensions, \$140,749.

BIRMINGHAM—Nelson Weaver, 2031 N. 1st Ave., let contract to J. A. Jones Construction Co., Atlanta, Ga., for Sheraton Apartments at Highland Ave. & S. 30th St., \$1,200,000.

BIRMINGHAM—Birmingham Southern College plans science building, \$210,000.

BIRMINGHAM—Virginia Steel Co. let contract to Brice Building Co., 130 S. 13th, for plant addition, \$150,000.

BIRMINGHAM—Phoenix Building Corp. let contract to Foster & Creighton for office building, \$1,100,000.

BREWTON—Escambia County plans 50-bed hospital, \$425,000.

BRIDGEPORT—Tennessee Valley Authority selected Widows Bar site on Guntersville Lake for Widows Creek Steam Plant, \$37,000,000.

CHATOM—Washington County plans 30-bed hospital, \$270,000.

CITRONELLE—Gulf Coast Oil Processing Co., Inc., plans tung and vegetable oil processing plant, \$182,000.

CLAYTON—Barbour County plans public health center, \$185,000.

CULLMAN—Cullman County plans 50-bed hospital, \$450,000.

CULLMAN—Cullman County Health Center plans public health center, \$70,000.

DECATUR—District I Tuberculosis Board plans 90-bed tuberculosis hospital, \$635,000.

DECATUR—Decatur General Hospital plans 100-bed hospital, \$1,000,000.

DECATUR—Housing Authority to construct 250-unit low cost housing project, \$85,000.

DEMOPOLIS—Demopolis County plans 30-bed hospital, \$350,000.

EFULFA—Barbour County plans 40-bed hospital, \$410,000.

EVERGREEN—Conecuh County plans 25-bed hospital, \$250,000.

GADSDEN—District 4 Tuberculosis Board plans 100-bed tuberculosis hospital, \$930,000.

HAMILTON—Marion County plans 40-bed hospital, \$480,000.

HUNTSVILLE—Madison County Health Center plans public health center, \$120,000.

HUNTSVILLE—Housing Authority to construct 350-unit low cost housing project, \$15,000.

JACKSON—Clarke County plans 20-bed hospital, \$250,000.

LINCOLN—Lincoln Hospital, Tom F. Griffin, Mayor, tentatively plans hospital.

MOBILE—Providence Hospital plans 200-bed hospital, \$2,100,000.

MOBILE—District 6 Tuberculosis Board plans 100-bed tuberculosis hospital, \$1,200,000.

MOBILE—State Docks received low bid from Standard Dredging Co., New Orleans, for dredging sites for two new piers, \$130,000.

MOBILE—Mobile Infirmary, Inc., received low bid from Henry C. Beck Co., Atlanta, Ga., \$3,074,700, for 250-bed hospital.

MOBILE—U. S. Engineer Office received low bid from American Sprinkler Corporation of America, Youngstown, Ohio, for automatic sprinkler system facilities, Brookley Air Force Base, \$435,236.

MOBILE—Little Sisters of the Poor let contract to Peyton Higgins, 59½ St. Francis St., for addition and alterations to home for aged, \$104,850.

MONTGOMERY—State Highway Department received low bids for projects in following counties:

Mobile—Proj. No. F-146(7) & U-146(8), 5.72 mi. grad, drain, and bridges on road from Mobile toward Theodore; L. L. Jarrell, Whistler, \$214,298, and bridges, Cook Construction Co., Jackson, Miss., \$103,548.

Morgan—Proj. No. SACP-169-A, 6.377 mi. grad, drain, and double surf. treat, on county road from Hartselle to Ala. 267 at Priceville; Georgia-Alabama Road Construction Co., Birmingham, \$107,121.

Clarke—Proj. No. F-5-169(3) and SACP-665-A, 11.769 mi. grad, drain, double surf. and bridges on Jackson-Coffeetown Rd.; Smith Engineering & Construction Co., Pensacola, Fla., \$184,777, on Prop. A, and Baird & Lat-

mer, Selma, \$63,902, on Prop. B;

Blount—Proj. No. SACP-206-B, 8.860 mi. grad, drain, and double surf. treat, on county road from Hayden to Nectar; Georgia-Alabama Road Construction Co., Birmingham, \$203,222;

Cherokee—Proj. No. SACP-237-A & 239-A, 3.849 mi. grad, drain, single surf. treat, and plant mix on county road between Ala. 223 and U. S. 411 and grad, drain, and dbl. surf. treat, from Leesburg south toward Livingston School; Hugh Steele Construction Co., Centre, \$59,177;

Cleburne—Proj. No. FA-S-246(1) & SACP-441-B, 8.860 mi. base and dbl. surf. treat, from State Road 46 at Pine Grove; J. B. Maynard, Alex. City, \$64,525;

Chambers—Proj. No. FA-S-299(2), 9.091 mi. base and single surf. treat, on road from Lafayette to Cusseta; J. B. Maynard, Alexandria, City, \$54,273;

Chilton—Proj. No. SACP-351-A, 6.577 mi. grad, and drain, on part of Clanton-Lay Dam Rd.; L. J. Cousins, Montgomery, \$66,891;

Blount and Cullman—Proj. No. S-457, 11.094 mi. base and dbl. surf. treat, on road from Garden City to Blountville; Georgia-Alabama Road Construction Co., Birmingham, \$80,621;

Montgomery—Proj. SACP-468-A, 5.991 mi. base and dbl. surf. treat; J. B. Maynard, \$40,059;

Clair—Proj. No. S-679-B, 6.833 mi. base and dbl. surf. treat, on Odenville-Ashville Rd.; W. F. Williams Construction Co., Ozark, \$72,675;

Bullock—Proj. No. SACP-769-C, 3.071 mi. grad, drain, and single surf. treat, on road from Smutey to Barbour County Line; Joe F. Williams, Prichard, \$42,704;

Blount and Cullman—Proj. No. FA-S-399(3), 0.054 mi. bridge on Holly Pond-Brooks-ville Rd.; C. G. Thompson, Guin, \$48,738;

Gerrard—Proj. No. FA-S-422(1), 9.179 mi. bridge on road from Samson to Florida State Line; Scott Construction Co., Thomasville, \$133,057;

Washington—Proj. No. S-688, 0.092 mi. bridges on road from Chatham to Mississippi State Line; Pigford Brothers Construction Co., Meridian, Miss., \$64,698.

Montgomery—State Highway Department received low bid for project in following county:

Dallas—Proj. No. FA-S-202(2), 0.064 mi. bridge on road from Polk-Pleasant Hill Rd.; Baird & Latimer, Selma, \$39,011.

MONTGOMERY—St. Margaret's Hospital plans 252-bed hospital, \$3,200,000.

LaGrange—Hawkins Construction Co. awarded contract for AEA building, \$69,492.

NORMAL—A&M College received low bid from Chambers Lumber Co., Athens, \$110,494, auditorium-gymnasium.

ONEOTA—Blount County plans 30-bed hospital, \$300,000.

OPELIKA—Lee County plans 75-bed hospital, \$755,000.

PRICHARD CITY—Housing Authority to construct 250-unit low cost housing project, \$85,000.

PRATTVILLE—Autauga County plans 30-bed hospital, \$325,000.

REFORM—Pickens County plans 20-bed hospital, \$170,000.

RIVERVIEW—West Point Manufacturing Co. received low bid from Batson-Cook Co., West Point, Ga., \$35,670 for office building.

SHAWMUT—West Point Manufacturing Co. let contract to Traylor Construction Co., LaGrange, Ga., new building, \$190,000.

SHEFFIELD—City let contract to Ballew and Roberts Construction Co., \$40,769, sanitary storm sewers extensions.

ST. ALAUGA—City plans nurses home, \$230,000.

THOMASVILLE—Clarke County plans 20-bed hospital, \$250,000.

TULDOOSA—Tulard City Hospital received low bid from Batson-Cook Co., West Point, Ga., \$39,964, excavation and foundation for hospital.

TULDOOSA—Covenant Presbyterian Church received low bid from J. E. Johnson, Base bid #1, \$122,672; from L. E. Priester, base bid #2, \$96,000; and K. T. Tucker, base bid #3, \$19,700, educational bldg.

TUSCALOOSA—Alabama State Hospitals plans 150-bed hospital, \$350,000.

UNION SPRINGS—Bullock County plans 22-bed hospital, \$225,000.

VERNON—Lamar County plans 30-bed hospital, \$350,000.

ARKANSAS

ARKANSAS—Bureau of Public Roads apportioned \$271,215 for federal aid highway work.

ARKANSAS—Public Service Corp. applied for authority to Public Service Commission to erect telephone exchanges at Tuckerman, Swift and Alicia; \$200,000.

ARKANSAS—General Services Administration, Washington, D. C., approved post offices at Augusta, West Memphis, \$220,000; Harrisburg, Haid Knob, Fayetteville, \$710,000; Ashdown, Camden, \$280,000.

ARKANSAS—Southwestern Bell Telephone Co., Little Rock, seeking authorization from Arkansas Public Service Commission for issuance of \$750,000 in first mortgage bonds.

ARKADELPHIA—First Baptist Church received low bid from G. W. May, \$146,400, for church educational bldg.

BLITHEVILLE—Housing Authority to erect 150 Negro housing units, \$35,000.

CLARENDON—Clarendon School District let contract to Wilson Construction Co., Recor Bldg., Little Rock, \$69,346, for gymnasium.

CLINTON—Van Buren County let contract to J. T. Cone, Searcy, \$60,430 for hospital.

EL DORADO—Warner Brown Hospital received bids March 15 for addition, \$1,200,000.

FORT SMITH—Fort Smith Sparks Memorial Hospital plans 87-bed hospital, \$982,000.

HOT SPRINGS—Hot Springs School Board plans expansion of schools; \$1,250,000 bond issue voted.

JONESBORO—St. Bernard's Hospital plans addition to present hospital, \$600,000.

LITTLE ROCK—Little Rock School District sold \$1,500,000 bond issue to Shields & Co. & Associates, school improvements.

LITTLE ROCK—Little Rock Separate School District sold \$1,535,000 bond issue to Herman Bensdorf & Co. of Memphis, school buildings.

LITTLE ROCK—City plans repairs to Adams Field, Little Rock Municipal Airport, \$78,348.

LITTLE ROCK—City plans development of park; may also construct swimming pool, \$359,000.

LITTLE ROCK—Housing Authority plans erection of 100 low cost housing units, \$250,000.

LITTLE ROCK—Little Rock School Board plans Stephens Negro School, \$170,000.

LITTLE ROCK—Arkansas Baptist Hospital, Board of Trustees, plans doctors' office building, 1700 W. 13th St., \$400,000.

LITTLE ROCK—Insurance Building Co. let contract to G. W. May Construction Co., 1115 E. 2nd St., \$39,400, one-story office bldg.

MAGNOLIA—Magnolia A & M College let contract to M. O. Benton Construction Co., Gazette Bldg., Little Rock, \$339,757, dormitory.

MORRISTON—City plans sewer extensions, \$175,000.

RISEON—City plans hospital, \$250,000.

TENABARA—Corps of Engineers, New Orleans, received low bid from Burns and Swilley, Contractors, Inc., Bossier City, La., \$57,848, for 313,000 cu. yds. semi-compact ed subwork along right descending bank of Red River in Garland City.

VAN BUREN—Crawford County plans 46-bed hospital, \$375,000.

WILSON—Wilson School Board let contract to Wilson Construction Co., Little Rock, \$84,916, for school.

DISTRICT OF COLUMBIA

WASHINGTON—Public Buildings Administration received low bid, Arrow Electric Co., 2819-A 14th, N. W. Washington, \$175,000, electrical installation, Bldgs. 11 and AC/DC changeover, Bldgs. 1, 2, 4, 7, 11, National Bureau of Standards.

WASHINGTON—Public Buildings Administration let contract to Lee T. Turner, 3616 14th, N. W., \$139,614, alterations to third floor, National Bureau of Standards.

FLORIDA

Bureau of Public Works apportioned \$134,959 for federal aid highway work.

BAI HARBOR—Capt. A. E. Schrader received low bid from J. D. Rodeheaver, Miami Beach, \$39,229, residence, Camden Dr.

CORAL GABLES—Carlton A. Hunt let contract to Stephen P. Kosco, 1266 SW 17th Terr., Miami, \$36,498, residence, S. Alhambra Circle & Miami Waterway.

CROSS CITY—Dixie County Board of Commissioners received low bid from Palmer Engineering & Construction Co., Box 4226, Jacksonville, \$40,940, jail.

DADE COUNTY—Board of County Commissioners let contract to Powell Brothers, Inc., 14 SW 1st Ave., Ft. Lauderdale, \$38,415, concrete and steel bridge, Waterway.

DADE COUNTY—Board of County Commissioners received low bid from Hendry

(Continued on page 16)

Southern Construction Projects

FLORIDA

(Continued from page 15)

Corp., Rattlesnake, \$53,989, for dredging and fill, Biscayne Key.

DADE COUNTY—Heathwood Co. let contract to John M. Ruff & Son, Miami, for residence and apartment, \$96,600.

DADE COUNTY—John T. McDonald, 2900 Granada Blvd., Coral Gables, build residence, 6450 SW 44th St., \$40,215.

DADE COUNTY—E. & R. Improvement Co., 2791 NW 79th St., Miami, let contract to Sparling & Son, 2791 NW 79th St., Miami, for store, \$39,660.

DADE COUNTY—Air-Lite Builders, Inc. let contract to N. L. Greenberg, 641 SW 44th Ct., Miami, 18 residences, \$134,148.

DADE COUNTY—Heathwood Co. let contract to John M. Ruff & Son, 1835 SE 2nd Pl., Miami, apartment at State Road A1A, \$76,733.

DADE COUNTY—A-F-Three, Inc. let contract to Albert Construction Co., 3140 N. Miami Ave., Miami, 41 residences, 2201-2350 NW 155th St., \$215,496.

DADE COUNTY—Lanti Corp., 3211 NW 27th Ave., Miami, let contract to Gaines Construction Co., 3211 NW 27th Ave., Miami, 102 residences, \$522,852.

FORT LAUDERDALE—Tolly Vink, 901 SW Cocoman Dr., build 6 residences, \$36,000.

FORT LAUDERDALE—Gill Construction Co., 105 E. Las Olas Blvd., build 9 residences, NW 15th Ave., \$45,000.

FORT LAUDERDALE—Willard Clark, 621 NE 9th Ave., build 10 residences, \$60,000.

FORT LAUDERDALE—C. H. Building Corp., 621 NE 9th Ave., build 15 residences, \$105,000.

FORT LAUDERDALE—Corps of Engineers, Jacksonville, received low bid from Cwell Engineering & Contracting Co. and Reynolds & Smith, Inc., P. O. Box 791, Lakeland, \$262,480, levee L-35-A, Florida Flood Control Project.

FORT MYERS—Lee County Board of Public Instruction let contract to Henry A. Ivey, Inc., P. O. Box 1246, \$141,521, industrial arts building, cafeteria-home economics.

FORT MYERS—City let contract to H. L. Long, \$98,945, fire station.

FORT PIERCE—Kenneth Adams will construct 80-unit veteran housing project, \$750,000 to \$1,000,000.

GREEN COVE SPRINGS—Navy Department let contract to Bury Compressor Co., Erie, Pa., \$112,567 for air compressors.

HIALEAH—Mackie Company, Inc., 2818 SW 22nd St., Miami, build 74 residences, \$70,000.

HIALEAH—Superior Home Builders, Inc., 96 NE 25th St., build 23 residences, \$100,489.

HOLLYWOOD—Ross Construction Co., 596 SE 8th St., Fort Lauderdale, build 5 residences, Fletcher St., \$41,000.

HOLLYWOOD—Julius Harris, Box 545, build 2 apartments, 308 Pierce St. & 308 Monroe St., \$75,000.

HOMESTEAD—City sold \$300,000 bond issue to Stranahan, Harris & Co., Toledo, Ohio, proceeds for two new diesel generators for power plant.

JACKSONVILLE—Navy Department, Public Works Office, let contract to Tank Cleaners, Inc., relining nine underground concrete storage tanks, U. S. Naval Air Station, \$46,068, Thicket Lining, \$43,552 for Amercoat Lining, \$33,600 for Horn Lining.

JACKSONVILLE—Corps of Engineers received low bid from The Hendry Corp., Rattlesnake, \$180,122, dredging 4½ mi. on Lake Okechobee.

JACKSONVILLE—State Road Department plans super-highway project for Jacksonville and Duval County, \$41,815,000.

LAKE WORTH—John Peters, 1104 Lake Ave., issued permit for apartment building at North Palmway and Lake Ave., \$36,000.

LANIANA—Florida State Improvement Commission, Florida State Tuberculosis Board, Delray Beach, let following contracts: Project 6—heating plant, Templin's, Inc., Lakeland, \$35,581; Project 7—mechanical equipment for heating plant, Harry Pepper, 119 W. 18th St., Jacksonville, \$37,072; Project 8—water treatment plant, E. & G. Construction Co., P. O. Box 845, Fort Myers, \$36,545 for Project No. 13, laundry building and \$92,594 for Project 14, residences, State Tuberculosis Sanatorium.

MIAMI—Spink's Brothers, 2311 SW 31st Ave., plan apartment and store bldg., \$40,000.

MIAMI—Syrian Lebanon American Club, 1500 SW 8th St., build assembly & club house, 2626 SW 3rd Ave., \$22,000.

MIAMI—St. Clair Builders, Inc. build two-

story apartment, 2030 SW 3rd Ave., \$70,000.

MIAMI—Princess Park Manor #1, 3500 Coral Way, build 30 residences, Ludlum Rd. & Tamiami Canal Rd., \$135,000.

MIAMI—Princess Park Manor #1, 3500 Coral Way, build 11 residences, \$39,050.

MIAMI—Allapattah Methodists Congregation Church, \$75,000.

MIAMI—W. C. Parry, 1220 NW 3rd Ave., build apartment, NW 4th Ave. & 11th Ct., \$40,000.

MIAMI—Board of Dade County Commissioners let contract to Acme Construction Co., Inc., 2299 N. W. 25th Ave., \$71,100 for Court-house—for Juvenile Detention Home.

MIAMI—Allapattah State Bank let contract to Robert Turchin, 5800 Collins Ave., Miami Beach, \$75,000, bank building, 1300 NW 36th St.

MIAMI—Biscayne Building, 15 W. Flagler St., let contract to Miami Super Cold Co., Inc., 31 S. W. 1st St., air conditioning, \$50,000.

MIAMI BEACH—Jewish Cultural Society, Miami, let contract to M. S. Construction Co., 5410 NW 14th Ave., Miami, \$52,511, auditorium, Lenox Ave.

MIAMI BEACH—David I. Taradash let contract to Robert Turchin, 5800 Collins Ave., one-story store, 1467-1505 Washington Ave., \$65,000.

MIAMI BEACH—David Phillips received low bid from Star Construction Co., 1440 NW 21st St., Miami, \$42,400, residence at Alton Rd. & 59th St.

MIAMI BEACH—City received low bid from Miami Roofing & Sheet Metal Corp., 7320 N. E. 1st Place, Miami, \$213,000, air conditioning, Miami Beach Auditorium.

NORTH MIAMI—Harvey Construction Co., 14085 W. Dixie Hwy., build 20 residences, \$171,360.

OCALA—County Board of Public Instruction received low bid from Gregg, Gibson & Gregg, Leesburg, \$105,559, colored elementary school.

ORLANDO—Navy Department, Public Works Office, Charleston, Naval Base, S. C., let contract to R. E. Carlson, 1930 13th Ave. N., St. Petersburg, \$844,000, laboratory building, fixed test pier and auxiliary structure, Naval Underwater Sound Laboratory.

PALATKA—Florida Power and Light Co., Miami, plan steam plant on St. Johns River, \$10,000,000.

TAMPA—City let contracts for Master Sewer System sewer improvement, Division EL Higgins, Inc., P. O. Box 2509, Sarasota, \$241,249; Division E2, Mariani-O'Brien, Inc., 301 22nd St., St. Petersburg, \$93,091; Division E3, Stansfield Construction Co., Inc., 2401 Horatio St., \$385,201; intercepting and trunk sewers, Cone Brothers Contracting Co., Caesar Ave. & Cumberland St., \$1,426,775; Divisions A1, A2, B1, C1, C2 & C3; river and channel crossings, Carpenter Construction Co., 700 Bank of Commerce Bldg., Norfolk, Va., \$332,873; Divisions, D1-6; Krause Street Pumping Station, structure, Lewis and McDowell, Inc., 285 Madison Ave., New York, N. Y., \$178,455.

ORLANDO—Salvation Army received low bid from W. A. McCree, \$56,275, office and class room bldg.

ST. PETERSBURG—James & Helen Hovorka let contract to Hovan & Horman, 134 Beach Dr., N. \$149,745, 4 apartment buildings.

TALLAHASSEE—State Road Department announced federal approval of \$42,000,000 Jacksonville bridge and parkway project.

TAMPA—City plans municipal bathing beach, Courtney Campbell Parkway, \$1,000,000.

TARPON SPRINGS—Diamond Braid Co., Chicago, Ill., plans \$100,000 mill for manufacture of shoe laces, parachute braids and novelty braids.

TAVERNIER—Florida Keys Electric Cooperative Association has REA loan of \$365,000 for additional generating facilities.

WEST PALM BEACH—General Services Administration, Washington, D. C., approved post offices at Thomasville, \$860,000; Warm Springs, Hogansville, Atlanta, \$2,750,000; Elberton, Vienna, \$200,000.

ADAMS—Hospital Authority of Cook County let contract to Culpepper & Edwards, Pelham, \$133,000 for Memorial Hospital.

ATLANTA—Georgia Public Service Commission received low bid from B. Johns, Box 24, East Atlanta Station, \$58,699, alterations, additions to building.

GEORGIA

GEORGIA—Bureau of Public Roads apportioned \$81,170 for federal aid highway work.

WEST PALM BEACH—General Services Administration, Washington, D. C., approved post offices at Thomasville, \$860,000; Warm Springs, Hogansville, Atlanta, \$2,750,000; Elberton, Vienna, \$200,000.

ADAMS—Hospital Authority of Cook County let contract to Culpepper & Edwards, Pelham, \$133,000 for Memorial Hospital.

ATLANTA—Georgia Public Service Commission received low bid from B. Johns, Box 24, East Atlanta Station, \$58,699, alterations, additions to building.

ATLANTA—Fulton-DeKalb Hospital Authority, Frank Wilson, Sec.-Treas., let contract to Ralph Dischuneit, Candier Bldg., \$1,439,600 Negro hospital.

ATLANTA—Kroger Co., 1100 Murphy Ave., SW, let contract to Rust Engineering Co., Exchange Bldg., Birmingham, Ala., office and warehouse, \$600,000.

ATLANTA—Georgia Public Service Commission let contract to Marthame Sanders & Co., 774 Spring St., N. W., \$62,683, alterations and additions to building, Capitol Square.

ATLANTA—Fulton County Board of Education let contract to Archer Brothers, Inc., 281 North Ave., \$387,900, Northside High School.

ATLANTA—State Highway Department received low bid for projects in following counties:

Clarke—Fed. Aid Proj. No. F-002-5(1), 1,343 ml. grad. and paving; Sloan Construction Co., Inc., Greenville, S. C., \$86,118.

Harris—Fed. Aid Proj. No. F-011-1(1), 7,931 ml. widening and resurf., also bridge at Mountain Creek; Georgia-Alabama Paving Co., Columbus, \$328,889.

Murray—Fed. Aid Proj. No. F-018-1(2) Contract 2, 1,345 ml. widening and resurfacing, also 2 bridges; M. J. Carroll Contracting Co., Leesburg, Fla., \$149,620.

Pierce and Appling—Fed. Aid Proj. No. F-073-2(1), Contract 1, 911 ml. grad. and pav.; R. A. Bowen, Macon, \$185,444.

Laurens—Fed. Aid Proj. No. F-143(5), 10,133 ml. grad. base and surf. treat., also 3 bridges; Coffee Construction Co., Eastman, \$236,227.

Brooks—Fed. Aid Sec. Proj. No. S-0559(1), 5,912 ml. grad., base and surf. treat.; Marion Construction Co., Ocala, Fla., \$46,594.

Long—Fed. Aid Sec. Proj. No. S-0612(1), 4,952 ml. grad.; Clarence C. Jones, Jesup, \$79,715.

Talbot—Fed. Aid Sec. Proj. No. S-0734(1), 4,878 ml. grad., base and surf. treat.; Coffee Construction Co., Eastman, \$85,117.

Carroll—Fed. Aid Sec. Proj. No. S-0737(1), 3,539 ml. grad., base and surf. treat.; W. L. Florence Construction Co., Powder Springs, \$52,967.

Gordon—Fed. Aid Sec. Proj. No. S-0827(1), 7,768 ml. grad., base and surf. treat.; Woodward-Lentz Construction Co., Cedartown, \$129,356.

Cherokee—Fed. Aid Sec. Proj. No. S-0828(1), 4,226 ml. grad. and surf.; Lothridge Brothers, Gainesville, \$93,300.

Rockdale—Fed. Aid Sec. Proj. No. S-0869(1), 4,866 ml. grad., base and surf. treat., also bridge at Yellow River; R. T. Smith, Atlanta, \$163,980.

Franklin and Stephens—Fed. Aid Sec. Proj. No. S-0889(1), 9,145 ml. grad., base and surf. treat.; R. T. Smith, Atlanta, \$141,907.

Greene—Fed. Aid Sec. Proj. No. S-0899(3), 5,690 ml. grad., base and surf. treat.; Woodward-Lentz Construction Co., Cedartown, \$129,651.

Fayette—Fed. Aid Sec. Proj. No. S-1057(1), 5,002 ml. grad., base and surf. treat.; Coffee Construction Co., Eastman, \$69,027.

Hall—Fed. Aid Sec. Proj. No. S-1238(1), 3,045 ml. grad., base and surf. treat., also bridge at Flat Creek; W. L. Cobb Construction Co., Decatur, \$97,733.

Walton—State Aid Proj. No. SAP-1546(7), 8,156 ml. grad., base and surf. treat.; Woodward-Lentz Construction Co., Cedartown, \$107,375.

Henry—Fed. Aid Sec. Proj. No. S-1577(1), 5,742 ml. grad., base and surf. treat., also 1 bridge; Hugh Steele Construction Co., Centre, Ala., \$80,494.

Tattnall and Long—Fed. Aid Sec. Proj. No. S-1579(1), 7,433 ml. grad., base and surf. treat., also bridge at Beards Creek; J. G. Atwell Construction Co., Statesboro, \$204,163.

Terrill—State Aid Proj. No. SAP-1906-A(2), 6,950 ml. grad., base and surf. treat.; Wright Contracting Co., Columbus, \$38,715.

ATLANTA—State Highway Department received low bids for projects in following counties:

Clarke—Fed. Aid Proj. No. F-002-5(1) Contract 2, new bridge at Oconee River; Meekins Construction Co., Cheraw, S. C., \$78,821.

Pierce and Appling—Fed. Aid Proj. No. F-073-2(1) Contract 2, bridge at Fishing Creek and 3 bridges at Big Satilla Creek; H. M. Pafford, Jr., Waycross, \$169,195.

Newspire—Fed. Aid Sec. Proj. No. S-1160(1), new bridge at Bull Creek and 0.345 ml. paved approaches on Forest Rd.; Trussell Construction Co., Columbus, \$46,242.

Lee—Fed. Aid Sec. Proj. No. S-1182(1), bridge at Kinchafoone Creek and 1.969 ml. graded and paved approaches; E. M. Beck-

ham Construction Co., Perry, \$90,000.

AUGUSTA—Citizens Advisory Committee on Health and Welfare recommended construction of Health Department Building, \$300,000.

AUGUSTA—Ware Bulck Co. let contract to Southern Construction Co., 1235 Reynolds St., \$75,490, auto sales and service building.

AUGUSTA—Blanchard & Calhoun Realty Co., agents, award contract, Daniel Construction Co., 429 N. Main St., Greenville, S. C., 10-story Maxwell House apartment, 10th and Greene Sts., \$2,000,000.

CAIRO—First Baptist Church received low bid from Culpepper & Edwards, Peiham, \$68,000, Sunday school annex.

DECATUR—Housing Authority to construct 100-unit low cost housing project, \$40,000.

EAST POINT—Mayor and City Council received low bid from Rapid Transfer & Construction Co., 280 Whiteford Ave., N. E., Atlanta, \$66,170, additional raw water supply line.

GAINESVILLE—Atlantic & Pacific Tea Co., Atlanta, let contract to Carroll Daniel, \$37,344, more.

GRIFFIN—Board of Education received low bid from John H. Smalling, 3782 Ridge Ave., Macon, \$346,360, high school.

MACON—First National Bank has started five-story bank, \$750,000.

MARIETTA—Corps of Engineers, Mobile, Ala. let contract to Ellard Contracting Co., Box 6705, Birmingham, Ala., \$266,694, sub-impounding dam.

MOULTREE—Housing Authority to construct 125-unit low cost housing project, \$47,000.

ROME—Georgia Department of Public Health, Atlanta, let contract to Johnson & Johnson Construction Co., 405 West Bldg., \$112,224, nurse home, Battey State Hospital.

ROSSVILLE—Peelless Woolen Mills let contract to Mark K. Wilson Co., Chamberlain Bldg., Chattanooga, Tenn., addition to finishing department, \$1,000,000.

SAVANNAH—Sylvan Byck let contract to Byck-Worrell Construction Co., Drayton Arms Apartment, Drayton & Liberty St., \$1,666,000.

SEA ISLAND—Sea Island Co. received low bid from Hayes Construction Co., Brunswick, \$172,492, beach club.

VALDOSTA—City let contract to S. J. Curry & Co., Albany, \$214,700, sewage treatment plant.

KENTUCKY

KENTUCKY—Bureau of Public Roads apportioned \$47,753 for federal aid highway work.

KENTUCKY—General Services Administration, Washington, D. C., approved post offices at Frankfort, \$1,060,000; Tompkinsville, Lexington, \$900,000; Newport, \$655,000.

FORD, CLARK COUNTY—East Kentucky Rural Electric Co-Operative Corp., Danville, has REA approval, erection 40,000 KW steam plant and 597 miles of KV transmission line, \$12,265,000.

FRANKFORT—Department of Highways let contract for project in following county:
Boyd—Contract No. F1 8(5), SP 10-165, Ashland-Grayson Rd., 1.351 mi. grade, drain and traf. bnd. surf.; E. B. Lowman, Ashland, \$26,873.

LEXINGTON—Kentucky Utilities Co. plan 140 miles transmission line, from Dix Dam to near Central City, \$2,630,000.

LOUISVILLE—Kentucky Hotel plans improvements to hotel, \$350,000.

LOUISVILLE—Metropolitan Sewer District Board received low bids for laying sewer and laterals to relieve overloaded sewers in Ward, Third, Fourth, Oak & Kentucky Streets; Thomas D. Nolan, Shepherdsville, for open cut and tunnel, \$472,406; W. L. Halley & Co., Nashville, \$472,612 for open cut.

LOUISVILLE—Speed Industries, subsidiary of Louisville Cement Co. and Black Star Coal Corp., let contract to Otho Tapp, 418 W. Liberty, for new \$350,000 office building.

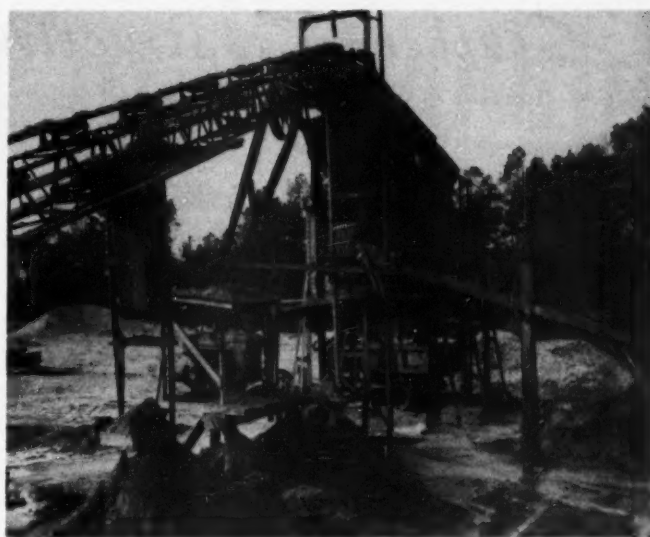
OWENSBORO—Housing Commission plans 41-unit housing project, \$1,096,694.

SOMERSET—South Kentucky Rural Electric Co-Operative Corp. received REA loan of \$900,000, transmission lines, system improvements, headquarters facilities, and miscellaneous improvements.

LOUISIANA

LOUISIANA—Bureau of Public Roads apportioned \$53,537 for federal aid highway work.

LOUISIANA—General Services Administration, Washington, D. C., approved post offices Lafayette, \$677,000; Coushatta, Amite, \$250,000; Carville, \$3,200,000; Lake Charles, \$1,490,000.



Above—Sand and gravel for northeast Texas is processed in this Pioneer 305-W washing and screening plant powered by an International U-4 carbureted engine. A 70-foot by 18-inch belt conveyor; 32-inch chain dehydrator; 4-foot scrubber and circular 42-inch by 16-foot revolving screen are pulled by the 31.5 horsepower. The plant also includes a 24-inch mechanical feeder with a 4 by 4-foot hopper and two 21-yard bins.

ABBEVILLE—Vermilion Parish Police Jury approved issuance of \$95,000 bond issue for improvements to Courthouse.

ABBEVILLE—Corps of Engineers, New Orleans, received low bid from Hough-Howgar & Co., Inc., 320 N. 4th St., St. Louis, Mo., \$49,947, for 1,000 lin. ft. of pile dike construction on Red River.

ALEXANDRIA—Veterans Administration, Construction Service, Washington, D. C., let contract to Barnett Brezner, \$38,155, fire tower building and fire escapes, Veterans Administration Hospital.

ALGIER—Aurora Development Co., build 150-unit Aurora Gardens Subdivision, \$2,000,000.

AMITE—Town Council let contract to John Wirth, Clinton, \$125,950, new city hall and jail building.

BATON ROUGE—East Baton Rouge Parish School Board received low bid from Charles Carter, P. O. Box 1270, \$278,219 for auditorium-gymnasium and cafeteria.

BATON ROUGE—City let contract to L. A. Spedale, 711 Richmond Ave., \$57,583, Perkins Road fire station.

BATON ROUGE—Louisiana State University plans \$1,000,000 school as laboratory to train teachers.

BATON ROUGE—Department of Highways let contract to T. W. Kleinfelder, \$166,998, surfacing 7 mi. of St. Bernard-Reggio Hwy., in St. Bernard Parish.

BATON ROUGE—Department of Highways received low bids for projects in following parishes:

Jackson—State Proj. No. 825-05-08, bridges and approaches on Jonesboro Hodge Hwy., 0.299 mi. reinf. conc. deck girder bridges, grad. and conc. pavement approaches; W. R. Aldrich & Co., Box 1751, \$103,580.

Vernon—State Proj. No. 29-02-14, Fed. Aid Proj. No. F-224(5), 4.695 mi. grad., small drain, struc., 7 at 24 ft. reinf. conc. deck girder span bridge, cutback asph. aggr. base course and bitum. surf. treat.; Austin Bridge Co., Box 1590, Dallas, \$174,414.

Vernon—State Proj. No. 29-02-13, Fed. Aid Proj. No. F-224(4), 6.264 mi. grad., small drain, struc., cutback asph. aggr. base course, bitum. surf. treat.; Austin Bridge Co., Box 1590, Dallas, \$209,192.

BATON ROUGE—Department of Highways

let contracts for projects in following parishes:

Iberia—2 mi. conc. paving of Charlotte-New Iberia and New Iberia-Loreauville Hwys.; Forcum-James Co., \$136,860.

Union—Surf. of Bernice Camp Creek school hwy. and bridges; T. L. James & Co., Inc., Ruston, \$141,616.

BATON ROUGE—Louisiana State University received low bid from Barkdale and LeBlanc, P. O. Box 1567, \$384,000, men's athletic dormitory.

BATON ROUGE—City let contract to Albert A. Stevens, 2320 Iroquois St., \$59,000, Evangeline Street fire station.

BENTON—Corps of Engineers, New Orleans, let contract to Fordice Construction Co., Porter Bldg., Main & Court Sts., Memphis, Tenn., \$78,820, for using broken concrete for 1,950 lin. ft. rock groins on Red River in Bossier Parish.

BATON ROUGE—East Baton Rouge Parish School Board let contract to Robert Thibodeaux, P. O. Box 887, \$301,450, combination auditorium-gymnasium and cafeteria.

CAMERON—Corps of Engineers, New Orleans, let contract to T. L. James & Co., Inc., Ruston, \$359,025, for gates, operating machinery and reservation facilities for Catfish Point Control Structure on Mermentau River.

CHENEYVILLE—Rapides Parish School Board, Alexandria, let contract to E. E. Rabalais & Son, Bunkie, \$158,163, grammar school.

CROWLEY—Acadia Parish School Board let contract to Gravier and Harper, P. O. Box 1391, Alexandria, \$317,473, for gymnasium and auditorium for Crowley High School.

CROWLEY—Department of Public Works, Baton Rouge, let contract to J. Ray McDermott, Inc., Harvey, \$90,864, for 631,000 cu. yds. earthwork.

DEQUINCY—Calcasieu Parish School Board, Lake Charles, let contract to T. Miller & Sons, P. O. Box 921, Lake Charles, \$69,280, high school, addition to school; Mills Engineering Construction Co., P. O. 156, Lake Charles, \$56,827, new school.

FARMERVILLE—Union Parish School Board let contract to Rannie Terrall, \$327,987, high school.

KAPLAN—Kaplan Holy Rosary Catholic Church plan church, \$150,000.

LAFALETTE—Evangeline Hotel let contract to Horace E. Rickey, \$274,662, addition to hotel.

LAFALETTE—H. J. Lagroue, Jr., Archt., 107 Souvenir Gate, received low bid, Romero and Theall, Youngsville, \$212,000, parochial school, Our Lady of Fatima Parish.

LAFALETTE—Smith and Padgett, Monroe, Archts., plans \$700,000 chemistry building.

(Continued on page 18)

Southern Construction Projects

LOUISIANA

(Continued from page 17)

ing, Southwest Louisiana Institute.
LAFAYETTE—Lafayette Parish School Board plans \$3,087,480 school building program.

LAFAYETTE—Dr. J. J. Bordin received low bid from J. B. Mouton & Sons, P. O. Box 862, \$61,986 for Eye, Ear, Nose & Throat Clinic building on East Main St.

LAKE CHARLES—City contemplates erection of 2 fire stations in new south city area, \$100,000.

LAKE CHARLES—American Legion low bid from Port City Construction Co., Box 22, \$73,206, legion home.

LAKE CHARLES—E. R. Kaufman let contract to Knapp & East, 2508 S. Ryan St., \$51,900, store and office building, 200 block Broad St.

LOCKPORT—Town received low bid from Union Construction Co., Inc., 2634 Almonaster Ave., New Orleans, \$117,260 for waterworks improvements.

MELVILLE—Transcontinental Gas Pipe Line Corp., M & M Bldg., Houston, Tex., let contracts to following for Suspension bridge over Atchafalaya River; Kansas City Bridge Co., Kansas City, Mo., \$1,011,140, substructure and American Bridge Co., Pittsburgh, Pa., \$849,747, superstructure.

MERRYVILLE—Beauregard Parish School Board let contract to Alexandria Insulation Co., 34 Bolton Ave., Alexandria, \$105,164, classroom and lunch room, Merryville High School.

MORGAN CITY—City Council let contract to Koller Construction Co., 612 Trademans National Bank Bldg., Oklahoma City, Okla., \$184,909, extensions of sewers and four lift stations.

MONROE—City sold \$4,000,000 bond issue to Phelps, Fenn & Co. of New York, water and electric revenue bonds.

MONROE—City Council sold \$4,000,000 municipal bond issue to Barrow, Leary and Co., Shreveport, and Assocs.

MONROE—St. Francis Sanitarium and Training School let contract to Gilbert Brothers \$58,010, one-story chapel.

MONROE—Park Avenue Development Corp. let contract to Garmier Construction Co., 721 Plumb St., 14 apartment houses, \$538,000.

MONTHERY—Concordia Parish School Board, Vidalia, plans food preservation plant, \$125,000.

MORGAN CITY—City sold \$323,000 sewer improvement bond issue to Newman Brown & Co.; Nushok, Baudean and Smith; Well and Co.; and J. M. Dain and Co., all of New Orleans.

MORGAN CITY—City sold \$46,500 public library building bond issue to Newman Brown & Co.; Nushok, Baudean and Smith; Well and Co.; and J. M. Dain and Co., all of New Orleans.

NATCHITOCHES—City approved issuance of \$150,000 bond issue, fire departments stations, trucks and fire alarm system.

NEW IBERIA—St. Peter's Catholic Church plans church, \$350,000.

NEW ORLEANS—Young Men's Christian Association receive bids in January, YMCA bids, \$350,000.

NEW ORLEANS—City Council let contracts for paving and drainage projects to following: R. P. Farnsworth, \$49,951; 12,174—Lang Co., Los Angeles; 12,175—Lang Co., \$15,218; 12,176—Lang Co., \$41,884; 12,177—Lang Co., \$4,727; 12,178—R. P. Farnsworth, Baton Rouge and New Orleans, \$14,914; 12,179—R. P. Farnsworth, \$5,065; 12,180—Boh Brothers, \$15,617; 12,181—R. P. Farnsworth, \$3,610; 12,182—R. P. Farnsworth, \$4,216; 12,183—R. P. Farnsworth, \$10,580; 12,184—R. P. Farnsworth, \$8,804; 12,185—Boh Brothers, \$15,896; 12,186—R. P. Farnsworth, \$27,974; 12,187—R. P. Farnsworth, \$15,915; 12,188—R. P. Farnsworth, \$18,045; 12,189—Boh Brothers, \$23,570; 12,190—R. P. Farnsworth, \$17,226; 12,191—R. P. Farnsworth, \$6,501; 12,192—Texelco, \$33,315; 12,193—Texas Bitulithic, \$59,204 and 12,260—M. Giambelluca, \$23,679.

NEW ORLEANS—General Services Administration, Washington, D. C. approved construction of new office, \$14,000,000.

NEW ORLEANS—Walgreen Drug Stores received low bid from R. P. Farnsworth & Co., 1515 S. Salcedo St., \$185,483, warehouse at Bienville & N. See Sts.

NEW ORLEANS—City Council plans five new health center buildings, \$300,000.

NEW ORLEANS—City and William G. Zeitmann, Rail Road Terminal Board Chmn., announced authorizing of bids for 1,751-ft. conc. and steel overpass on N. Claiborne Ave., over Press St., rail yards, \$800,000.

NEW ORLEANS—Boyle Investment Co. let contract to Herbert Morton, Inc., \$283,000, 45 residences in Sherwood Forest development.

NEW ORLEANS—American Beauty Homes Construction Co., 81 unit subdivision, Jefferson Park, \$300,000.

NEW ORLEANS—Jackson Brewing Co. let contract to J. Gordon Lee, Carondelet Bldg., repairs and alterations to plant, \$70,000.

NEW ORLEANS—City Council let contract to R. P. Farnsworth & Co., Inc., 1515 S. Salcedo St., \$66,324, conc. and asph. paving of approaches to Elysian Fields Overpass at Florida Ave.

NEW ORLEANS—Department of Highways, Baton Rouge, let contract to Jahneke Service, Inc., 514 Howard Ave., \$1,375,851, filling portion of New Basin Canal.

NEW ORLEANS—Charity Hospital let contract to George J. Glover Co., Whitney Bldg., \$428,000 for Male Infirmary Building.

NEW ORLEANS—Congregation of St. Raphael Archangel Roman Catholic Church let contract to J. Gordon Lee, Carondelet Bldg., parochial school at Elysian Fields Ave. and Alexander St., \$174,000.

NEW ORLEANS—Stephens Buick Co. let contract to Gervais F. Favrot Co., Balter Bldg., \$399,929, auto sales and service building, Carondelet St.

OAKDALE—Allen Parish School District No. 25, Ward 2, approved \$82,000 bond issue, building at Kinder and repairs to the Fairview School.

PLAIN DEALING—Bossier Parish School Board, Benton, let contract to W. A. Gray Construction Co., P. O. Box 626, Shreveport, \$102,366, negro school.

RAYVILLE—Police Jury of Richland Parish have \$550,000 available for courthouse and jail.

RAYVILLE—City let contract to Fairbanks Morse & Charles A. Co., 1940 So. New Orleans, \$119,874, for generating unit with auxiliary equipment at municipal power plant.

SHREVEPORT—W. H. W. Homes, Inc., Dallas, Tex., will build 300-unit housing project on Mansfield Rd., \$2,500,000.

SHREVEPORT—Corps of Engineers, New Orleans, let contract to Burns-Swiley Contractors, Inc., Bossier City, \$57,848, for 313,000 cu yds. semi-compacted earthwork on Red River Levee, Miller County Levee District No. 3 and Garland Levee District.

SHREVEPORT—Housing Authority let contract to J. A. Jones Construction Co., 354 Aree Dr., \$1,885,000, 270 unit housing project.

ST. MARTINVILLE—St. Martin Parish School Board let contract to Robert Angelle, Breaux Bridge, \$59,921, for office building.

THIBODAU—Department of Public Works, Baton Rouge, let contract to Halpin Construction Co., \$54,886, 366,400 cu. yds. earthwork.

VIDALIA—Concordia Parish School Board plans school, \$174,000.

WELSH—Our Lady of Seven Dolours Church let contract to Romero & Theall, Youngsville, \$67,960.

ZACHARY—Mayor and Board of Aldermen received low bid for waterwork improvement: Proposal No. 2, additions to waterworks system, Red River Construction Co., P. O. Box 3132, Queensboro, Sta., Shreveport, \$56,499.

ZACHARY—Mayor and Board of Aldermen received low bid from L. O. Rahorn, 2927 Evangeline St., Baton Rouge, for Proposal No. 1, additions and alterations to natural gas system, \$56,929.

MARYLAND

ANNAPOLIS—County Commissioners of Anne Arundel County, Church Circle, received low bid from Mullian Contracting Co., 3945 Greenmount Ave., Baltimore, \$335,000, Health and Welfare Building, South and Cathedral Sts.

BALTIMORE—Best Built Housing Corp., 629 N. Calvert St., build 21 residences, 1301, 13 Lakewood Ave. and 2701-27 Hoffman St., \$105,000.

BALTIMORE—Kinwat Corp., 1110 Fidelity Bldg., build 43 residences, 1204-50 Glenhaven Rd., Belwood and 5701-33 Beauregard Ave., \$258,000.

BALTIMORE—City has allocation of \$62,500 for outfall sewerage system to serve administration building, Friendship International Airport.

BALTIMORE—City is seeking \$6,700,000, school construction in Baltimore.

BALTIMORE—National Realty Co., 22 E. 21st St., build 12 residences, 903-25 Job Ave., Oakley Village, \$72,000.

BALTIMORE—Ralph W. Simmers, 2030 E. Belvedere Ave., build 20 residences, 1200-22, 1900-12 E. Belvedere Ave., and 5700-10 Maplehill Rd., \$200,000.

BALTIMORE—Board of Estimates let con-

tract to DeLuca-Davis Construction Co., and Frederick D. Carozza Co., 102 E. 25th St., \$747,345 for demolition and alterations of existing structures; grading for construction of lower stands of sections E to SE and L to SW of new Memorial Stadium, etc.

BALTIMORE—General Services Administration and Jesse M. Donaldson, Postmaster General, Washington, D. C., approved erection of 12-story office building to house all governmental agencies, except postal, adjoining Customs House, \$8,000,000; also a new Franklin postal station on Calhoun St., \$200,000; and remodeling of the parcel post building adjoining Union Station, \$200,000.

BALTIMORE—Board of Estimates let contract to Carl H. Klinejohn, 3726 E. Pratt St., \$44,912, remodeling and alterations, Chronic Hospital B. City Hospitals.

BALTIMORE—Board of Estimates let contract to J. H. Williams, Inc., 1122 Cathedral St., \$282,000, Clifton Park swimming pool.

BALTIMORE—State Roads Commission proposed \$23,312,384 budget for 1950, including \$7,285,622 for structures and \$4,929,216, nonstructural improvements.

BALTIMORE—St. William of York Church let contract to Consolidated Engineering Co., Inc., 20 E. Franklin St., \$446,500, for convent school and Auditorium at Edmondson Ave. & Cook's Lane.

BALTIMORE—State Roads Commission received low bids for projects in following counties:

Howard—Contract No. H-218-1-315; grad., drain, and surf. of hwy. along relocation of U. S. Rt. No. 29 at Columbia Pike, 4.905 mi. reinf. cement conc. surf., also including steel beam bridge with reinf. conc. abutments over Little Patuxent River; Wilmoth Paving Co., 1st and P Sts., SE, Washington, D. C., \$797,998.

Anne Arundel—Contract No. AA-384-2-315, grad., drain, and surf. of several localities of Dorsey Rd. 0.91 mi. bitum. conc. base, surf. and sand, apply courses, macadam base course and crusher-run stone foundation; F. P. Asher, Jr. & Sons, Inc., Annapolis, \$175,497.

BALTIMORE—State Roads Commission received low bids for project in following county:

Harford—Contract No. H-322-415, widening, drain, resurf. portions of existing roadway and grad., drain, and surf. relocation Rt. 24, 2.652 mi. penetration macadam surf. course, macadam base course, bitum. conc. surf. course and base course; Harry T. Campbell & Sons Corp., Towson, \$292,183—stone; \$293,848—slag.

BALTIMORE—State Roads Commission let contract for project in following county:

Garrett—Contract No. C-218-5-615; furnishing, delivering and applying bitum. conc. resurf., 3.972 mi.; Keeley Construction Co., Clarksburg, W. Va., \$98,445.

BALTIMORE—State Roads Commission received low bid for project in following county:

Contract No. CE-322-2-215, K-174-2-215; repairs to existing bridge over Sassafraz River at Georgetown, incorporating alterations, including bent at damage pier; John D. Sheetz Construction Co., 1334 Sulphur Spring Rd., Halethorpe, \$88,500.

BALTIMORE—State Roads Commission let contracts for projects in following counties:

Kent—Contract No. K-173-2-215; grad., drain, and widening and resurf. of existing roadway and grad., drain, and surf. relocation Rt. 213, 4.036 mi. macadam base course, penetration macadam base and surf. course and bitum. conc. bank run grav. aggr. base and surf. course; Bero Engineering & Construction Co., Box 477, Hampton, Va., \$36,192.

Dorchester—Contract No. D-211-2-215, grad., drain widening and resurf. along existing roadway and grad., drain, and surf. of relocation section of Rt. No. 50, 1.27 mi. macadam base course, penetration macadam base and surf. course, bitum. conc. widening, base course and surf. course; Thomas A. Reilly Co., 12 Reaney St., Chester, Pa., \$284,252.

BALTIMORE—State Roads Commission received low bids for projects in following county:

Queen Anne's—Contract No. Q-168-1-215; grad., drain, and surf. of divided highway, 2.473 mi. reinf. cement conc. roadway; C. J. Langenfelder & Son, 8427 Pulaski Hwy., \$94,128.

BALTIMORE—State Roads Commission let contracts for projects in following counties:

Carroll—Contract No. CL-303-1-315, grad., drain, and surf. of divided hwy. along U. S.

(Continued on page 26)

Ahead of Schedule

with equipment that's ahead in performance



DORENA DAM in Oregon, begun in May, 1947, was considered a big 3½-year project. Good organization* plus job-steady "Cat" DW10s were two important reasons why completion time was shortened by almost 12 months.

Ten DW10 Tractors with No. 10 Scrapers spearheaded the "Caterpillar" fleet. Extended sides on the Scrapers enabled each to carry 11 borrow-pit yards. Averaging about 6 trips each on hauls over 4000 feet . . . including 1500 feet of adverse grade to crest of dam . . . these units moved some 570 cubic yards per hour—for a total of about 10,250 yards per 18-hour day. Two D8s served as pushing units in the pits . . . load time was less than a minute. Four additional DW10s worked on the fill, equipped with dozers and pneumatic-tired tampers.

These records tell a story of speed, volume—and owner-operator satisfaction. Project Manager A. H. Steiner says: "These units are unbeatable. Among their biggest features are their easy loading and ease of operation. Our boys work nine hours a day and hardly know when lunch hour comes around."

Profit-making speed and volume, little or no interrupting down time over long periods of operation, complete satisfaction—are the "end results" "Caterpillar" owners expect and invariably get.

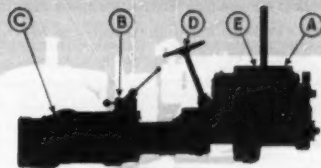
*Under the name of The Dorena Construction Co., this project was put through with the co-ordinated facilities of: G. F. Atkinson Co., Brenzi & Bevanda Construction, Inc., W. E. Kier Construction Co., and A. Teichert & Son, Inc.

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LOOK UNDER THE HIDE OF THE "CAT" DW10

A. ALL "CATERPILLAR" BUILT. Undivided manufacturer responsibility! Engine, transmission, clutch and final drive—all are 100% "Caterpillar" built and designed for each other.

B. QUALITY BUILT. Typical of the quality designed into the DW10 is the constant-mesh, easy-to-shift transmission.

C. SPEEDS UP TO 24.5 MPH. Three complete ranges of speed are available with a choice of final drive gears.

D. EASY SAFE OPERATION. Four-wheel stability; hydraulic booster steering; selective-acting air brakes on the DW10 and trailed unit; hydraulically controlled spring-mounted seat and unexcelled visibility.

E. EASY TO MAINTAIN. "Caterpillar" has always designed for ease of service. Fuel injection equipment that can be replaced like spark plugs, with no adjustments required; a metallic-lined double-disc flywheel clutch that can be removed without disturbing engine or transmission—these are just two of many reasons why owners report full satisfaction.

SEND FOR LATEST BOOKLET

"The 'Caterpillar' DW10 in Action"

Southern Construction Projects

MARYLAND

(Continued from page 18)

Rt. 140, 3.50 mi. reinf. conc. surf.; Nello L. Teer Co., Durham, N. C., \$942,503.

Frederick—Contract No. F-476-2-615; widening, drain, and resurf. of portions of existing roadway and grad., drain, and surf. several curve modifications along State Rt. No. 26, 4.013 mi. macadam base course, penetration macadam base course, bitum. conc. surf. course, and base course; American Asphalt Products Co., Inc. and P. Sta., S. E., Washington, D. C., \$204,148.

BALTIMORE—State Roads Commission let contracts for projects in following counties:

Prince Georges—Contract No. P-646-1-515; 2 double 15 ft. span by 10 ft. rise reinf. conc. box culverts, 1 over Brier Ditch and other over branch of Brier Ditch, relocation 0.43 mi., Waco Contracting Co., 5115 Belair Rd., \$137,587.

BALTIMORE—Corps of Engineers approved improvement of harbor at Vivalve on Nantuxee River on Eastern Shore, \$167,900.

BALTIMORE—W. C. Construction Co., 5453 Fairlawn Ave., build 48 residences, \$240,000.

BALTIMORE—State Roads Commission sold \$2,500,000 bond issue to Smith, Barney & Co. & Assoc., highway construction.

BALTIMORE—Board of Estimates let contract for following projects:

Contract No. 1026—pave highways with cement concrete; P. Reddington & Sons, 2 E. Lexington St., \$87,538.

BALTIMORE—Board of Estimates let contract to Camillo L. Caporale, 307 Walker Ave., \$104,261 for sanitary sewers, Contract No. 382.

BALTIMORE—Board of Estimates let contract to Frank Angeozzi Construction Co., 125 S. High St., \$487,426, sanitary sewers, Contract No. 381.

BALTIMORE—Board of Estimates let contract to Globe Improvement Co., 2012 N. Charles St., \$59,100, construction of public bath building, Claremont Ave. & Eaton St.

BALTIMORE—Board of Estimates let contract to Joseph F. Hughes & Co., Inc., 511 N. Charles St., \$1,060,535, Graceland Park-O'Donnell Heights Elementary School.

BALTIMORE—Garden Villa, Inc., build 7 residences, 5436-48 Radecke Ave., \$49,000.

BALTIMORE—Merritt & Glover, Inc., Town-800, build 6 two-story residences, 3902-12 Tivoli Ave., Northwood, \$48,000.

BALTIMORE—Board of Estimates let contract to J. H. Williams & Co., Inc., 1122 Cathedral St., \$206,000, Leaside Park swimming pool, bath house and facilities.

BALTIMORE—Board of Estimates let contract to Costanza Construction Co., 225 E. Redwood St., \$501,750, Fallstaff Road Elementary School, Fallstaff Rd. & Gist Ave.

BALTIMORE—Board of Estimates received low bid from General Elevator Co., Bush & Ridgely Sts., \$39,845 for demolition of 2 existing elevators, construction of 2 new elevators, City Hall.

BALTIMORE—Greenmount Realty Co. let contract to Mullan Contracting Co., 3915 Greenmount Ave., drug warehouse, 2208 Alsquith St., \$90,000.

BALTIMORE—State Roads Commission received low bids for projects in following counties:

Anne Arundel—Contract No. AA-263-7-315; deck steel plate girder superstructure bridge over Severn River on proposed Annapolis Bypass; Harris Structural Steel Co., Inc., 419 4th Avenue, New York, N. Y., \$1,925,544.

Calvert and Charles—Contract No. C-184-3-515, CH-253-3-515; bridge over Patuxent River along State Rt. 231; Diamond Construction Co., Box 4741, Washington, D. C., \$1,742,743.

BALTIMORE—State Roads Commission received low bids for projects in following counties:

Prince Georges—Contract No. P-391-1-515; grad., drain, and surf. of divided hwy. along relocation of State Rt. No. 5, 3.153 mi. reinf. cement conc. roadway; Rea Construction Co., Box 2015, Charlottesville, N. C., \$873,073.

Carroll—Contract No. CL-314-315; grad., drain, and widening of sections of existing roadway and grad., drain, and surf. of several relocations along Rt. No. 27, 5.061 mi. reinf. cement conc. surf.; Thomas Bennett & Hunter, Inc., Westminster, \$416,328.

Prince Georges—Contract No. P-358-515; grad., drain, widening and resurf. sections of existing roadway and grad., drain, and surf. of several relocations along Rt. 414, 3.918 mi., F. P. Asher, Jr. & Sons, Inc., Annapolis, \$773,634.

BALTIMORE—Levendale Hebrew Home & Infirmary received low bid from Henry A.

Knott, Inc., 2107 N. Charles St., \$319,344, dining hall and recreation building, Greenspring & Belvedere Aves.

BALTIMORE—United Contractors, Inc., 226 E. Lexington St., build 50 apartment buildings, Haddon, Burlis, Parkway, and Bowen Aves., \$1,000,000.

BALTIMORE—Western Maryland Railway Co. received authorization from Interstate Commerce Commission, to issue \$46,177,000 general mortgage 4% bonds.

BALTIMORE—State Roads Commission let contracts for projects in following counties:

Frederick—Contract No. F-425-5-615, 5-span steel plate girder and steel I-beam bridge supported on reinf. substructure over Monocacy River on proposed Washington National Pike; Conduit & Foundation Corp., 770 Schuykill Ave., Philadelphia, Pa., \$762,182.

Frederick—Contract No. F-425-4-615, 101 ft. span steel plate girder bridge to carry Washington National Pike over U. S. Rt. No. 25, dual structures, supported on reinf. conc. abutments, including grad. and paving 0.46 mi. section of Rt. 15 under and adjacent to bridge; Frank Pecora Construction Co., Inc., 2611 N. York St., \$1,097,544.

Calvert and Charles—Contract No. C-184-3-515, CH-253-3-515; bridge over Patuxent River along State Rt. 231; Diamond Construction Co., Box 4741, Washington, D. C., \$1,742,743.

Anne Arundel—Contract No. AA-263-7-315; deck steel plate girder superstructure of bridge over Severn River on proposed Annapolis Bypass; Harris Structural Steel Co., Inc., 419 4th Avenue, New York, N. Y., \$1,925,544.

BALTIMORE—Lenton Heights Apartments, 202 E. 25th St., let contract to Hogan & Flatt Realty Co., 202 E. 25th St., for 7 apartment bldgs., 800-13 Lenton Ave., 800-16, 801-25 Dartmouth Rd., \$230,000.

BALTIMORE—Fenwick Corp. of Baltimore, 11 E. Fayette St., build 11 residences 360-60 Chesterville Ave., \$88,000.

BALTIMORE COUNTY—Steinmetz Building Co., 3610 Lochearn Dr., build 5 residences, 3809-17 Sylvan Dr., Lochearn, \$40,000.

BALTIMORE COUNTY—County Commissioners, Towson, received low bids for sanitary sewers and storm drains, Contract No. 176-S, sanitary sewers, & Contract No. 177-D, storm drain, Marocco Construction Co., 231 S. Essex St., Baltimore, \$115,108.

BALTIMORE COUNTY—S. Wallace Diedeman, build 6 residences at Fullender Ave., \$42,000.

BALTIMORE COUNTY—Cadenas Co., 11 E. Fayette St., let contract to Welsh Homes, Inc., 11 E. Fayette St., 31 residences at Stratford Rd., \$248,000.

BALTIMORE COUNTY—Proust & Proust, 3640 Lochearn Dr., build 10 residences, 3724-42 Sylvan Dr., Lochearn, \$80,000.

BALTIMORE COUNTY—County Commissioners, Towson, let contract to Frank Angeozzi Construction Co., 125 S. High St., Baltimore, \$36,065, storm drains, etc., Nunery Lane.

BALTIMORE COUNTY—Board of Education, Towson, received low bid from Charles R. Scrivener Co., Inc., 339 St. Paul Place, Baltimore, \$369,700, addition to Loch Raven Elementary School.

BALTIMORE COUNTY—Dulany Valley Apartments, Inc., Dulany Valley Rd., Towson, let contract to Dulany Valley Construction Co. for 17 apartment bldgs., Dulany Valley Rd., \$1,023,500.

BALTIMORE COUNTY—County Commissioners, Towson, received low bid from Philip D'Adamo Construction Corp., 5014 Reisterstown Rd., \$146,492, sanitary sewers, Dead Run Interceptor.

CARDEROCK—Navy Department, Public Works Officer, let contract to F. H. Martell Co., 1023 20th, N. W., Washington, D. C., \$351,800, electrical equipment building.

CATONSVILLE—Citizens Committee for Procurement of a Site announced selection of site at foot of Mellor Ave., new Army; \$150,000.

CROWNSVILLE—Department of Public Improvements, 506 Park Ave., Baltimore, received low bid from Mullan Contracting Co., 3945 Greenmount Ave., Baltimore, \$235,000, dormitory type staff quarters, Crownsville State Hospital.

DENTON—General Services Administration, Washington, D. C., approved specifications, post office building, \$150,000.

FORT BELLEVILLE—Federal Housing Administration broke ground, 348-unit housing project for military and civilian personnel, Fort Meade, Reece Contractors, Inc., is the contractor, \$4,000,000.

GLEN BURNIE—Board of Education of Anne Arundel County, Annapolis, let contract to James J. Stehle, 111 Academy Road, Annapolis, \$448,060, Harundale Elementary School.

HAGERSTOWN—Hagerstown Fair Assoc-

ation plans \$250,000 grandstand.

HYATTSVILLE—Washington Suburban Sanitary Commission sold \$7,000,000 bond issue to Phelps, Fenn & Co. of New York & Ferris & Ferris of Washington, for water and storm drainage facilities in Montgomery and Prince Georges counties.

HYATTSVILLE—Prince Georges County Board of Education received low bid from B. J. Construction Co., Washington, D. C., \$576,151, addition to Fairmont Heights Junior-Senior school.

HYATTSVILLE—Prince Georges County Board of Education, Upper Marlboro, received low bid from George Hyman Construction Co., 1010 Vermont Ave., N. W., Washington, D. C., \$1,494,000, for Hyattsville High School.

OAKLAND—Edward Hughes Glidden, Jr., 410-18 Equitable Bldg., Baltimore, Archt., plans school at Oakland, \$800,000 and Northern Regional High School in Garrett County, \$750,000.

OWINGS MILLS—Department of Public Improvements, Baltimore, let contract to J. H. Lawrence Co., 2600 Huntington Ave., Baltimore, \$55,001, Rosewood Training School, utilities.

PATUXENT RIVER—Navy Department, Public Works Office, let contract to William T. Lyons Co., Tower Bldg., Baltimore, \$40,000, theodolite stations.

SPRINGSVILLE—Department of Public Improvements, Baltimore, received low bid from Henry A. Knott, Inc., 2107 N. Charles St., Baltimore, \$67,770, for Garfers, four cottages at Springdale State Hospital.

TOWSON—American Legion, Towson Post No. 22, let contract to Webster Miterling, 105 Enfield Rd., legion home at York Rd., \$77,700.

MISSISSIPPI

MISSISSIPPI—Bureau of Public Roads appropriated \$109,323 for federal aid highway work.

MISSISSIPPI—General Services Administration, Washington, D. C., approved post offices, Tupelo, \$567,000; Greenville, \$473,000; Quitman, \$230,000.

ABERDEEN—City approved issuance of \$200,000 industrial bond issue.

ASHLAND—Board of Supervisors of Benton County let contract to Russell Ozzane, Medical Arts Bldg., Memphis, Tenn., \$102,408, Ashland Clinic building.

BELMONT—Board of Supervisors of Tishomingo County plans Health Center, \$40,000.

BLOXIE—Housing Authority has approval, 20 low-rent housing units, \$1,500,000.

BRECKE—Board of Supervisors of Calhoun County plan 30-bed hospital, \$257,700.

CANTON—Board of Supervisors of Madison County plans 29-bed hospital addition, \$186,000.

CLARKSDALE—Cooper Yerger Post, American Legion, plans club home and recreation center on De Soto Ave., \$110,000.

COLLINS—Board of Supervisors of Covington County let contract to Charles Carter Contracting Co., Baton Rouge, La., \$167,985, 25-bed hospital.

GREENVILLE—Harold Kaplan, Archt., Weinberg Bldg., plans Black Bayou School, \$35,000.

HATTIESBURG—Immanuel Baptist Church let contract to L. A. Gily & Son, Laurel, \$74,980, Sunday school.

HICKORY FLAT—Board of Supervisors of Benton County plans Health Center, \$40,000.

JACKSON—Board of Trustees of Institutions of Higher Learning plans Gulf Coast Research Laboratory, \$240,000.

JACKSON—Lindsay Cabanis received low bid from G. E. Bass & Co., 712 Bradon Ave., \$149,892, alterations and additions to Capitol Floral Company Building.

JACKSON—Jackson Terrace, Inc., 322 West Capitol St., plan apartment, \$360,000.

JACKSON—West Park Methodist Church plans church, 221 Moss Ave., \$200,000.

JACKSON—Jackson Separate School District, Board of Trustees, plans six negro, four white elementary schools, \$2,000,000.

JACKSON—Melrose Subdivision, Inc. let contract to P. A. Board of Supervisors of Atala County plans 2-story war memorial civic center, \$275,000.

KOSCIUSKO—First Baptist Church will receive bids early in August for church, \$225,000.

KOSCIUSKO—Bureau of Public Roads,

(Continued on page 22)

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from Factory to User

PACKED WITH 1950 FEATURES

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The outstanding Self-Contained Circulating Water System on the 1949 Model HD makes possible Completely DUSTLESS Cutting. Yes, completely DUSTLESS cutting for intricate jobs in confined areas. When dust is no problem merely turn the pump valve for dry cutting. No, you don't have to disconnect the pump on the Model HD Clipper to cut dry for it is to eliminate such time consuming adjustments.



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That smooth, sensitive cutting action on every Clipper is a result of another exclusive Clipper feature, the Pressure Equalizer Spring with its Automatic Action.



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Clipper's exclusive "Adjust-A-Cut" Control—just pull the knob to instantly lower or raise the cutting head for materials of varying sizes. A "One-Man" operation!



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BLADE COVER**

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COMPANY _____

STREET _____

CITY _____

ZONE _____

STATE _____

Southern Construction Projects

MISSISSIPPI

(Continued from page 20)

Florence, Ala.—received low bid from Goodwyn & Murphree, Troy, Ala., \$156,400, for Natchez Trace Parkway Proj. 3L4 for steel I-beam bridge, multiple span conc. box culvert and approaches in Attala County.

Meridian—St. Patrick's Catholic Church plans convent for Sisters of Mercy, gymnasium and auditorium, \$100,000.

Natchez—Pharasia Corp. received \$1,000,000 from FHA for 252 all-rental units.

Ocean Springs—Board of Supervisors of Jackson County approved issuance of \$100,000 bond issue, erection of a plant for use as a garment factory, operated by E. R. Moore & Co.

Pascagoula—Pascagoula Port Commission and City let contract to W. F. Fairchild, Box 127, Hattiesburg, \$135,513, for wharf extensions and dock facilities, east bank of Pascagoula River.

Picayune—Board of Trustees of Picayune Municipal Separate School District received low bid from Stanley W. Newman Co., P. O. Box 1565, Mobile, Ala., \$77,425 for negro elementary and high school.

Prentiss—Board of Supervisors of Jefferson Davis County plans Health Center, \$40,500.

Sardis—Tower Theater Co. plans theater to replace bldg. destroyed by fire, \$100,000.

Sumrall—Board of Trustees of Sumrall Consolidated School District received low bid from W. H. McDaniel, Prentiss, \$87,900, school, gymnasium, vocational school and rest rooms.

Tupelo—Board of Directors of North Mississippi Community Hospital let contract to A. C. Samford, Inc., Albany, Ga., \$73,658 for plumbing work, 42-bed addition and alterations to North Mississippi Community Hospital.

Tylertown—Tylertown Baptist Church plans church and conversion of present bldg. into educational bldg., \$89,771.

Waynesboro—Board of Supervisors of Wayne County let contract to G. & K. Construction Co., P. O. Box 548, Pascagoula, \$152,442, Bed County Hospital Building.

MISSOURI

Missouri—Bureau of Public Roads apportioned \$117,562 for federal aid highway work.

Missouri—General Services Administration, Washington, D. C., approved post offices, Moberly, \$409,000; Independence, \$540,000; Marshfield, Cape Girardeau, St. Louis, \$1,100,000; Richmond Heights Branch, \$232,000.

Alton—City received low bid from R. & R. Construction Co., Alton, \$179,990, pumping station.

Bella Villa—City approved \$50,000 bond issue, sewer extensions.

Belle Villa—Linea House of Retreats let contract to Bauer Brothers Construction Co., retreat house, \$324,988.

Columbia—Curators of University of Missouri received low bid from John Epple Construction Co., 401 S. 6th St., \$48,000, agricultural building, Hitt and Rollins Sts.

Columbia—Curators of University of Missouri received low bid from John Epple Construction Co., 401 S. 6th St., \$95,000 for meat laboratory building.

Fulton—Missouri Department of Public Health & Welfare, Jefferson City, let contract to Roy Schepeler Construction Co., 624 W. Main St., Jefferson City, \$112,296 for 3 staff residences, State Hospital No. 1.

Ironton—Black River Electric Cooperative received low bid from Thaxton Construction & Engineering Co., Lebanon, \$288,587, project Missouri-38K-Reynolds.

Jefferson City—State Highway Commission let contracts for projects in following counties:

Jackson—Proj. No. U-888(4), 69-Spur, 0.229 mi. GE, bridge & 24-ft. PCC pavt.; Bushman Construction Co., St. Joseph, \$188,729.

Jackson—Proj. No. U-888(2b), Rt. 69, 0.560 mi. superstructure for viaduct; M. E. Gillizo, Monett, \$722,046.

Franklin—Proj. No. F1-258(4)-A, Rt. 66, 3.667 mi. GE, bridge & 24-ft. PCC pavt.; Perry McElone Construction Co., Kansas City, \$473,940.

Franklin—Proj. No. F1-258(4)-B, 3.506 mi. GE, bridge & 24-ft. PCC pavt.; Perry McElone Construction Co., Kansas City, \$480,344.

Franklin—Proj. No. F1-258(4)-C, 3.259 mi. GE, bridge & 24-ft. PCC pavt.; Perry McElone Construction, \$414,768.

Kansas City—City recommended issuance of \$425,000 bond issue, sewers.

Kansas City—City recommended airport.

Kansas City—City recommended issuance of \$1,750,000 bond issue for trafficways and boulevards and \$750,000 bond issue, street rehabilitation.

Kansas City—Board of Advisory Trustees approved \$200,000 allocation, purchase of Milwaukee Railroad bridge.

Kansas City—Board of Advisory Trustees approved \$700,000 allocation, airport improvements, Municipal Terminal and Grandview.

Kansas City—City recommended the issuance of \$150,000 bond issue for parks and playgrounds; \$125,000 bond issue for Fire Department; \$250,000, Police Department; \$1,000,000 Swope Park.

Kansas City—City recommended issuance of \$80,000 bond issue, hospitals.

Kansas City—State Highway Commission, Jefferson City, let contracts for Southwestern Trafficway Viaduct, to Bushman Construction Co., St. Joseph, for 1.3 mi. grad. and conc. paving, \$624,834, and M. E. Gillizo, Monett, paying deck and conc. handrails on 3,600-ft. 6-lane viaduct, \$722,046.

Linn—Central Electric Power Corp. has REA approval 15,000 KW steam generating plant, 142 miles of 154 KV transmission line and 12 miles of 69 KV transmission line.

Rolla—Public Buildings Administration let contract to MacDonald Construction Co., 3829 W. Pine Blvd., St. Louis, \$79,447, reconstructing experiment station, Bureau of Mines.

St. Joseph—Aviation Board plan 2-story Airport administration building, \$200,000.

St. Joseph—Dill-Wood Motor Co., 1905 Frederick, received low bid from Lehr Construction Co., 323 N. 3rd, St. Joseph, sales and service building, 17th & Frederick, \$100,000.

St. Louis—Walter Siefert, 6628 Marquette St., build apartment, 5128 Jamieson St., \$50,000.

St. Louis—Occupational Therapy Workshop, Inc., plans 2-story and basement office and service building, 337 Washington Ave.

St. Louis—William S. Seltzer & Co., 723 Chestnut St., build apartment alterations, 5412-30 Cabanne St., \$50,000.

St. Louis—Shelby Construction Co., Inc., build 1425-unit housing development at Brentwood, Brentwood Blvd., Eager Rd., Lawn & Parkridge Aves., \$12,000,000.

St. Louis—Artphone Corp. let contract to L. E. Millstone Construction Co., 4343 Clayton, \$409,300, office and warehouse building, Rosedale and Clemens Aves.

St. Louis—Housing Authority plan 5800 low-rent housing units, \$52,200,000.

St. Louis—City announced plans slum clearance and rehabilitation of blighted areas, \$5,000,000.

St. Louis—Syndicate, care of Sidney Salomon, Jr., Ambassador Bldg., & Sam Levin, 506 Olive St., plan 12 apartment buildings, \$70,000.

St. Louis—Board of Aldermen voted an additional \$300,000 for acquiring property for proposed Third street inter-regional highway.

St. Louis—Lancip Realty Corp., 705 Olive St., build 13-story apartment, 18 S. Kingshighway, \$8,500,000.

St. Louis—Volo Voerster Co., Inc., 4053 Lindell Blvd., build 16 one-story residences, \$100,000.

St. Louis—Homes, Inc., 6770 Delor St., build 3 one-story residences, 5733-37 Oleatha & 6201 Potomac St., \$35,000.

St. Louis—Don C. Musick Construction Co. have contract for plant, for Vess Bottling Co., \$200,000.

Jefferson City—State Highway Commission let contracts for projects in following counties:

Jackson—Proj. U1-888(2)d, Rt. 69, 0.358 mi. GE & 36' & 72' PCC pavt.; Bushman Construction Co., St. Joseph, \$188,729.

Jackson—Proj. U1-888(3)b, Rt. 69, 0.156 mi. GE & 24' & 36' PCC pavt.; Bushman Construction Co., St. Joseph, \$35,265.

Linn—Rt. 36, Sec. 41A, 4.174 mi. RS base widen, & 20' & 22' asph. conc. surf.; Land Construction Co., \$79,776.

Clinton—Rt. 69, Sec. 1, 4.285 mi. 20' asph. conc. pavt.; Midwest PreCote Co., Kansas City, \$63,686.

Clinton—Rt. 69, Sec. 2, 4.215 mi. 20' asph. conc. pavt.; Midwest PreCote Co., Kansas City, \$63,599.

Clay—Rt. 69, Sec. 37-A, 5.000 mi. 20' asph. conc. pavt.; Midwest PreCote Co., \$77,070.

Jefferson—Rt. 61, 71-B, 4.240 mi. 40' asph. conc. pavt.; Granite Bituminous Paving Co., St. Louis, \$116,931.

Jefferson—Rt. 61, Sec. 72-B, 2.240 mi. 40' asph. conc. pavt.; Granite Bituminous Paving Co., \$127,601.

St. Louis—Rt. 40, 83-A, 1.650 mi. asph. conc.

resurf. & repl. 2-11' lanes PCC pavt.; Skranins Construction Co., St. Louis, \$37,982.

Palaski—Rt. 66, Sec. 39-A, 4.168 mi. 20' asph. conc. pavt.; Granite Bituminous Paving Co., St. Louis, \$62,126.

Palaski—Rt. 66, Sec. 40B, 4.939 mi. 20' asph. conc. pavt.; Granite Bituminous Paving Co., St. Louis, \$73,900.

St. Louis—Hussmann Refrigeration, Inc., let contract to Fruit-Colson Contracting Co., 1706 Olive St., for factory building, 2505 Leffingwell, \$350,000.

St. Louis—Archdiocese of St. Louis to start financial campaign May 15, 1950, to raise funds of \$5,000,000 for children's hospital.

St. Louis—International Business Machine Corp. received low bid from Brockmeyer Construction Co., 6301 N. Grand Blvd., \$72,603, office building alterations, 3556 Lindell Blvd.

St. Louis—Vernon S. Beck construct one-story addition, \$50,000.

St. Louis—Syndicate, headed by E. H. Crump, Jr., let contract to Shelby Construction Co., Memphis, Tenn., apartment house project, \$11,500,000.

SEBASTIA—Board of Education, School District No. 200, received low bids for following schools: Smith-Cotton High School, Cramer and Schrader Construction Co., \$246,700; cafeteria building, George E. Bauman, \$83,235.

Whittier School, E. A. Brunson Construction Co., \$85,721; Horace Mann School, Cramer and Schrader Construction Co., \$138,251.

SPRINGFIELD—Eastly and Hawkins, Architects, plan library building Southwest Missouri State College, \$70,000.

MARSHFIELD—Sho-Me Power Corp. has REA approval 12 miles of 69 KV transmission line, \$4,559,500.

WEBSTER GROVES—Dickie Construction Co. has contract for \$100,000 addition to Eden Theological Seminary at Lockwood and Bompert Aves.

WEBSTER GROVES—City Library Board has selected P. John Hoener, 3415 S. Kingshighway, St. Louis, Archt., library, Orchard & Lockwood, \$150,000.

WINDSOR—First Baptist Church plans Sunday school addition, \$40,000.

NORTH CAROLINA

North Carolina—Bureau of Public Roads apportioned \$141,093, federal aid highway work.

North Carolina—General Services Administration, Washington, D. C., approved post offices at Scotland Neck, Hillsboro, Goldsboro, \$605,000; Lexington, \$305,000; Spray, \$200,000.

North Carolina—State Highway & Public Works Commission, Raleigh, let contract to Roger DeVaun, Inc., 1012 S. 17th, Wilmington, on combination bid of \$72,800, prison camps in Bladen and Brunswick counties.

Thoske—Virginia Electric and Power Co. plans general improvements and extensions to service, \$250,000.

ALAMANCE COUNTY—Alamance County Board of Education received low bid from Heenan Holt for following schools: Addition and alterations to Elon Negro School, \$95,020; toilet room additions to Haw River School, \$12,637; additions and alterations to Elon School, \$60,199; new building at Woods Chapel Negro School, \$29,720; new building at Graham Negro School, \$110,959.

ALBEMARLE—Local Government Commission, Raleigh, sold \$1,350,000 bond issue to R. S. Dickson & Co. & Associates, waterworks improvements.

ALBEMARLE—Local Government Commission, Raleigh, sold \$92,000 bond issue to R. S. Dickson & Co. & Associates, street improvements.

SEBASTIA—State Board of Education recommended \$2,000,000 bond issue to finance construction of city and county schools.

BLACK MOUNTAIN—Western North Carolina Sanatorium let contract to Southern States Construction Co., 2002 Blanding, Columbia, S. C., combined bid of \$161,791 for nurses home addition and home for colored employees; bids rejected for employees' apartment building.

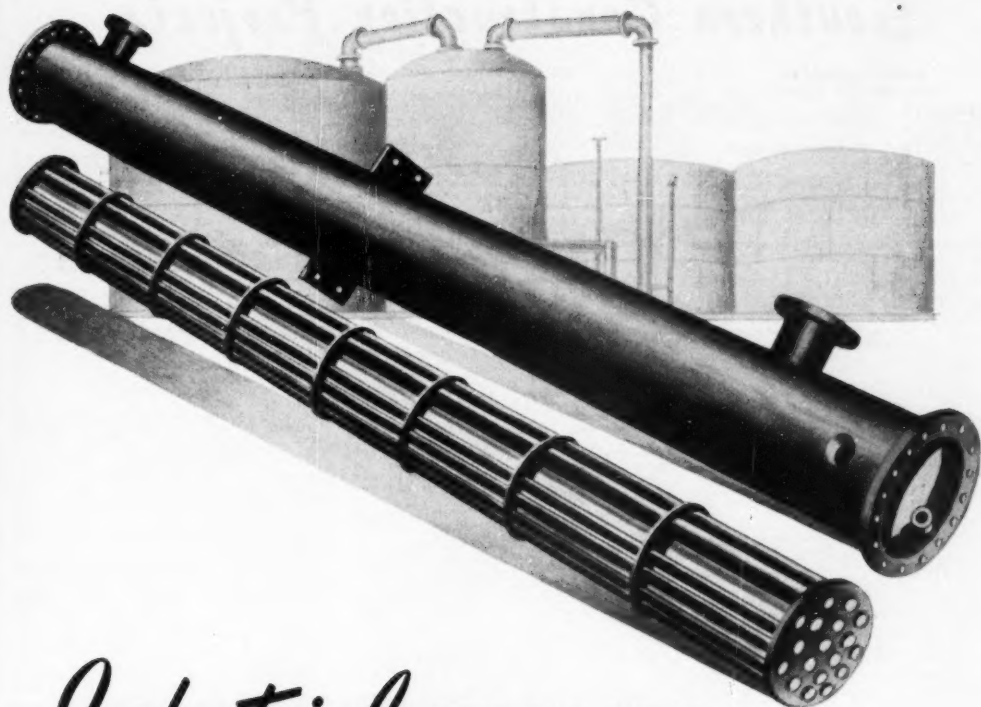
CASWELL COUNTY—Caswell County Board of Education let contract to Grigg and Arthur Construction Co., Reidsville, \$292,916, Cobb Memorial School.

CHAPEL HILL—University of North Carolina Women's College plans building program, \$2,933,000.

CHARLOTTE—Charlotte Manufacturing Co. has acquired General Electric Supply Corp.'s building in expansion program which involves \$100,000.

CHARLOTTE—L. A. Barnes build Barnes Park housing development, \$750,000.

(Continued on page 24)



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Southern Construction Projects

NORTH CAROLINA

(Continued from page 22)

CHARLOTTE — City let contract to Rea Construction Co., \$226,450, New Sugar Creek Outfall Sewer.

CHARLOTTE — J. H. Carson Realty Co. let contract to M. B. Kahn Construction Co., 1113 Blossom St., Columbia, S. C., 19-story office bldg., S. Church and W. 3rd Sts., \$2,600,000.

CONCORD — Cabarrus County School Board of Education let contract to L. S. Bradshaw & Sons, Salisbury, \$160,500, Wincoff High School.

DURHAM — Housing Authority has approval to construct 600-unit low-cost housing project, \$170,000.

DURHAM — Corps of Engineers, Wilmington, received low bid from Otis Elevator Co., 39 Harris St., N.E., Atlanta, Ga., \$259,405.2A, and \$238,471.2B, for installation of elevators and dumbwaiters in 500-bed general medical Veterans Administration Hospital, for which Thompson & Street Co., P. O. Box 1847, Charlotte, submitted low bid of \$5,685,400 on general contract.

DURHAM — Wright Refuge Board let contract to Cole and Crumpacker, construction of Refuge bldg., \$155,000.

DURHAM — U. S. Engineer Office, Wilmington, received low bid from Thompson & Street Co., P. O. Box 1847, Charlotte, \$5,618,000, for buildings and utilities for Veterans Administration Hospital.

ELIZABETH CITY — J. C. Penny Co. let contract to M. L. Skinner, New Bern, \$88,454, store bldg.

ELM CITY — Board of Trustees of Elm City School let contract to Daughtridge Builders, annex to colored school, \$84,159, and addition to Elm City High School, \$70,684.

FAYETTEVILLE — First Presbyterian Church let contract to Granville-Sloan, Inc., \$77,450 recreation bldg.

GASTONIA — North Carolina Orthopedic Hospital received low bid from E. R. Morgan, \$71,470, addition to administrative building, helps quarters and duplex residence.

GASTONIA — North Carolina Orthopedic Hospital let contract to Albemarle Plumbing & Heating Co., Albemarle, \$56,315, for Contract I, steam tunnels, piping and electrical work and to Ross-Witmer, Inc., Charlotte, for Contract II, air-conditioning.

GASTONIA — Citizens National Bank let contract to Robert H. Plinnix, remodeling bank, \$200,000.

GOLDSBORO — North Carolina Medical Care Commission, Raleigh, announced 100-bed hospital, \$1,200,000.

GOLDSBORO — State Hospital, Hospital Board of Control, let contract to Rogers Construction Co., Smithfield, \$229,440, Farm Colony Building.

GREENSBORO — Greensboro Public Schools plans Negro school, \$151,000; elementary school, \$267,000.

GREENSBORO — A&T College let contract to King-Hunter, Inc., 910 Market, \$193,363, women's dormitory.

GREENSBORO — A&T College let contract to H. L. Coble Construction Co., 1705 Battleground Ave., \$880,700, men's dormitory.

GREENSBORO — College Park Baptist Church plans addition to church, \$190,000.

GREENSBORO — Moses H. Cone Memorial Hospital expect to start work soon on 300-bed institution, \$5,000,000.

GREENSBORO — A&T College plans \$3,948,936 building program.

GREENSBORO — Jessor Improvement Co. will expand Summit Shopping Center to \$1,000,000 development of 23 stores, two service stations and tourist court.

GREENSBORO — Jessor Fabrics Operating Division of J. P. Stevens and Co., Inc., plans \$500,000 office building.

GUILFORD COUNTY — F. D. Idol, County Sup't., has the approval of \$480,000 by State Board of Education, Raleigh, for long-range building program in Guilford County Schools.

HERTFORD — Perquimans County Board of Education let contract to J. L. Batton & Brothers, Edenton, \$92,577, vocational shop and a physical educational building.

HICKORY — Board of School Trustees of Hickory City Administrative Unit let contract to Cline Lumber Co., \$135,000, alterations and additions to Viewmont School.

KINGS MOUNTAIN — Board of Trustees of Cleveland County Hospital, Shelby, let contract to Crosland Construction Co., 1621 Haden, Columbia, S. C., \$150,267, general hospital.

KINGS MOUNTAIN — North Carolina Medical Care Commission, P. O. Box 1880, Raleigh, announced 24-bed hospital, \$192,000.

MARION — North Carolina Medical Care Commission, P. O. Box 1880, Raleigh, announced 25-bed hospital, \$300,000.

MECKLENBURG COUNTY — Mecklenburg County Board of Education let contract to R.

H. Plinnix, Gastonia, \$463,500, East High School.

MOREHEAD CITY — Carteret County Board of Education let contract to Godley-Hinnant, Inc., Wilmington, \$66,562, addition Morehead City Graded School.

MORGANTON — North Carolina Medical Care Commission, P. O. Box 1880, Raleigh, announced 40-bed hospital, \$433,772.

NORTH WILKESBORO — Board of Trustees of Wilkes General Hospital let contract to P. S. West Construction Co., Statesville, \$551,200, for 100-bed general hospital, Proj. No. NC-33.

RALEIGH — State Highway Commission received low bid for project in following counties:

Davidson-Randolph — Grad. and struc. on 5.36 mi. on US 29 and 70; Suber & Co., Whitmire, S. C., \$257,085.

RALEIGH — State Highway & Public Works Commission let contracts for projects in following counties:

Craven-Pitt — Paving 9.89 mi. near Epworth school; Barrus Construction Co., Kinston, \$76,429.

Anson — Hard-surf. 34 mi. surf. 8 sections; Propst Construction Co., Concord, \$180,663.

Montgomery — Hard-surf. 19.8 mi. surf. 6 sections; Sam Finley, Inc., Roanoke, Va., \$81,051.

Richmond — Hard-surf. 29.8 mi. surf. 8 sections; Dickerson, Inc., Monroe, \$126,355.

Montgomery-Richmond — Grad. and pav. on 17.46 mi. of US 220 and N.C. 211; Blythe Bros., Charlotte, \$275,935.

Richmond-Montgomery — Paving 13.5 mi. of N.C. 731; Blythe Brothers Co., Charlotte, \$41,580.

Richmond — Grad. and pav. on 13.19 mi. of US 1; Blythe Bros. Co., \$159,308.

Surry — Grad. pav. and struc. on 2.19 mi.; W. E. Grant Sons, Cleveland, \$62,469.

Onslow-Jones — Grad. pav. and struc. on 7.93 mi.; Barrus Construction Co., Kinston, \$92,947.

Lenoir — Grad. and hard-surf. on 7.3 mi.; Barrus Construction Co., \$55,856.

Johnston — Grad. and hard-surf. on 12.44 mi.; Wayne Engineering & Construction Co., Inc., Mt. Olive, \$92,242.

Wayne — Grad. and hard-surf. on 16.5 mi. Part 1&2: Wayne Engineering & Construction Co., Inc., \$130,344.

RALEIGH — Board of Trustees received low bid from Atlantic Building Co., 2601 Fairview Road, \$144,300, science building, St. Augustine's College.

RALEIGH — State Highway Commission's Fifth Division will hard-surface in following counties under first phase of \$200,000,000 bond issue program: Alamance—86.73 mi.; Caswell—51.20 mi.; Durham—48.2 mi.; Granville—40.5 mi.; Guilford—23 mi.; Hargett—42.90 mi.; Person—36.95 mi.; and Rockingham—59.98 mi.

RALEIGH — State, Dept. of Public Buildings and Grounds, announced plans for \$4,000,000 office building program; plans call for a new Highway Commission Building, \$1,000,000, work to start about March 1; addition to Education Building, \$800,000 appropriated; new wing to Agriculture Building to replace present wing housing the State Museum, appropriation \$1,000,000, bids to be received about February 1; new building for State Board of Health, \$600,000 appropriation, bids to be received about March 1; remodeling of the Library Building, appropriation of \$151,500, and a warehouse for the School Textbook Commission and store State records, appropriation \$300,000.

RALEIGH — State Highway Commission received low bids for projects in following counties:

Washington — Structures on 2 bridges; Columbus Contractor, Whiteville.

Cleveland — Structure on bridge over Buffalo Creek; S. C. F. A. Triplett, Inc., Chester, S. C., \$53,228.

RALEIGH — State Hospital, Hospital Board of Control, let contract to J. A. Jones Construction Co., 209 W. 4th, Charlotte, \$332,700, building for disturbed men.

RALEIGH — North Carolina State College let contract to T. A. Loving & Co., Goldsboro, \$434,434, mechanical engineering building.

RALEIGH — North Carolina State College of A&E let contracts for ice rink equipment, accessories and piping, consultation electrical work and painting the armory; Division C. D. E. & F. Stahl-Rider, Inc., Raleigh, \$59,889.

RALEIGH — North Carolina Hospitals Board of Control let contract to H. L. Coble Construction Co., 1705 Battleground Ave., Greensboro, \$141,472, for 25 cottages, general help.

RALEIGH — State Highway Commission received low bids for projects in following counties:

Bladen — Grad. pav. and struc. on 22.6 mi. on N.C. 87; F. D. Cline Construction Co.,

Raleigh, \$372,372.

Davidson-Randolph — Grad., pav. and struc. on 6.58 mi.; J. K. Cecil & Son, Lexington, \$85,818.

Stokes — Grad. and pav. on 10.9 mi. of US 311 and N.C. 89; B. D. Gentry Construction Co., Inc., Walnut Cove, \$173,185.

Wilkes — Grad., hard-surf. and struc. on 4.4 mi.; Laverne Bros., Earl, \$69,134.

Cleveland — Grad. and struc. on .07 mi. of US 74, consisting of underpasses under Morgan St., Southern Railway and Lafayette St. in Shelby; Harvey H. Stewart, Charlotte, \$95,214.

Beaufort — Grad. and hard-surf. on 9.75 mi. Part 1&2: Dickerson, Inc., Monroe, \$149,389.

Pitt — Hard-surf. on 9.9 mi.; Dickerson, Inc., Monroe, \$67,565.

Washington — Grad. on 10.5 mi. from US 64 at Creswell; N. F. Eure, Beaufort, \$48,919.

Franklin — Grad. and hard-surf. on 7.5 mi. from point on N.C. 88 mi. south of Youngsville north to point on N.C. 56 west of Lenoir; F. D. Cline Construction Co., Raleigh, \$50,300.

Nash — Grad. and hard-surf. on 13.4 mi. Part 1, 2&3: Exum-Cline Construction Co., Rocky Mount, \$91,128.

Wake — Grad. and hard-surf. on 23.6 mi. on 4 sections in counties of Raleigh, Wake, Forsyth, Neuse and Knightdale; F. D. Cline Construction Co., Raleigh, \$193,588.

Wilson — Grad. and hard-surf. on 18.2 mi.; Dickerson, Inc., Monroe, \$156,500.

Vance — Grad. and hard-surf. on 8.6 mi.; Brown Paving Co., Lexington, \$72,942.

Caldwell — Grad., hard-surf. and struc. on 6.7 mi. at Kings Creek; F. D. Cline Construction Co., 614 N.E. 26th, Oklahoma City, \$138,400.

Rocky Mount — Park View Hospital received low bid from D. J. Rose & Son, \$153,490, additions to hospital.

ROXBORO — Person County Board of Education received low bid from George W. Kane, Roxboro, \$139,961, Negro high school.

RUTHERFORDTON — North Carolina Medical Care Commission, P. O. Box 1880, Raleigh, announced 70-bed hospital, \$840,000.

SALISBURY — Mayor and City Council let contracts, water purification plant; Division VI, filter plant, V. B. Higgins, Greensboro, \$489,940.

SHELBY — North Carolina Medical Care Commission, P. O. Box 1880, Raleigh, announced 36-bed hospital, \$432,000.

FAYETTEVILLE — City received low bid from Gilbert Engineering Co., Inc., \$68,854, sanitary sewer improvements.

SWANNANOVA — Anjo Bearing Co. received low bid from H. Southworth Co., Asheville, \$123,240, industrial building with office.

WENDELL — Wendell Christian Church let contract to R. H. Lee, Raleigh, \$55,500, Sunday school building and church.

WILSON — Board of Trustees of Wilson City Schools received low bid from McKoy-Helgeson Co., 8-A W. North, Greenville, S. C., at combination bid of \$348,660, Elvie Street Elementary School and vocational building to Charles L. Coon High School.

WINSTON-SALEM — Forsyth County Board of Education received low bid from Fowler-Jones Construction Co., Reynolds Office Bldg., \$929,700, Carver School.

WINSTON-SALEM — Shore Real Estate and Insurance Co. plans 176-unit Columbia Terrace Apartments, \$820,000.

WINSTON-SALEM — Rural Hall Methodist Church let contract to Wilson Covington Co., church, \$65,000.

WINSTON-SALEM — Forsyth County Board of Education let contract to Fowler-Jones Construction Co., Reynolds Office Bldg., \$1,500,000, Carver School.

OKLAHOMA

OKLAHOMA — State Highway Department, H. E. Bailey, Dir., predicts \$45,000,000 program, 1950.

ADA — Ada School District let contract to P. G. Troop, McAlester, \$139,346, for Willard School.

DEKALB — Board of Education let contract to Burton and Miller Construction Co., Ardmore, \$235,913, high school.

EDMOND — Parkside Osteopathic Hospital & Clinic received low bid, Weller Construction Co., 614 N.E. 26th, Oklahoma City, \$138,400, building.

ARDMORE — Ardmore Independent School District plans high school for Negroes, \$160,000.

ARDMORE — Southern Oklahoma War Veterans (Continued on page 26)

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Southern Construction Projects

OKLAHOMA

(Continued from page 24)

crane's Hospital plans building improvements, \$341,221.

BRISTOW—L. B. Sneed plans 5 residences, \$37,500.

BUFFALO—State Highway Commission, Oklahoma City, received low bid from D. C. Bass and Son, Enid, \$42,696, warehouse and oil storage building at division 6, State Highway Department Headquarters.

CUSHING—City approved \$400,000 bond issue, waterworks improvements.

ELK CITY—City plans sewers, \$60,000.

ENID—St. Mary's Hospital has Federal aid of \$590,472 for enlarging present hospital, \$1,400,000; plan campaign to raise \$300,000; north wing to be constructed first, three and four stories, \$380,000.

FOIT SILA—U. S. Corps of Engineers plan 500-unit military personnel housing project, \$55,000.

GOLTRY—Board of Education, build one-story school, \$50,000.

GOODWELL—Panhandle A&M College received low bid from Baker Construction Co., Guyton, \$66,810, for museum building.

HAABEL—City Council approved \$325,000 bond issue for improvements and extensions of water and sewer facilities.

KINGFISHER—Lutheran Church plans sanctuary \$50,000.

LAWTON—Andy Crosby, Jr., and T. H. Lewis, Jr., have construction underway on 144-home residential development, \$1,200,000.

LINDSEY—General Services Administration, Washington, D. C., approved post office, etc., cost under \$200,000.

MCALISTER—City approved issuance of \$200,000 bond issue, city's share in construction of \$425,000 project.

NORMAN—William L. Lockett, 910 Elm St., plans hotel and facilities, \$250,000.

NORMAN—Delta Gamma Sorority House plans three-story addition to sorority house, \$90,000.

NORMAN—First Christian Church let contract to Industrial Construction Co., 1627 W. Main St., Oklahoma City, \$63,900, Sunday school addition.

OKENE—Okene Municipal Hospital plans hospital, \$201,000.

OKLAHOMA CITY—Board of Education let contract to Haskell Culwell Construction Co., 42 NE 28th, \$78,430, additions to Lafayette School.

OKLAHOMA CITY—Executive Committee of the Oklahoma Medical Research Foundation has federal grant, \$225,000, for combined cancer and heart disease research hospital, as an east wing of \$800,000 research foundation center now under construction.

OKLAHOMA CITY—Oklahoma Industries, Inc., let contract to Lippert Brothers Construction Co., 2800 N. Santa Fe, \$76,753, for plant, W. Main and Virginia, to be leased to Eagle-Picher Paint & Varnish Div.

OKLAHOMA CITY—Barada & Page received low bid from Haskell Culwell, 42 N.E. 28th, \$65,500, warehouse, W. Grand & Kentucky.

OKLAHOMA CITY—Salvation Army Headquarters plans headquarters center, \$200,000.

OKLAHOMA CITY—City let contract to Mark Holloway Construction Co., \$43,851, paving I course PCC.

OKLAHOMA CITY—Wilmont Place Baptist Church let contract to Tom Beasley, 1715 NW 13th St., church superstructure, \$75,000.

OKLAHOMA CITY—First Christian Church let contract to Industrial Construction Co., Norman, \$63,300, Sunday school.

OKLAHOMA CITY—Ben C. Welman, 201 Paseo, let contract to John H. Putney, 133 N.W. 2nd, \$80,000 business building.

OKLAHOMA CITY—Economy Co., 106 1/2 N.E. 2nd, let contract to John H. Putney, 133 N.W. 2nd, \$80,000, warehouse and office, 26-28 W. Park Place.

OKLAHOMA CITY—State Highway Commission let contracts for projects:

Choctaw—US 70, 0.472 mi. 8-in. thick conc. paving, Sooner Construction Co., Muskogee, \$84,912.

Texas—7.475 mi. 6-in. caliche base, double bitum. paving, Broce Construction Co., Woodward, \$69,803.

Texas—5.210 mi. same type construction; Broce Construction Co., \$48,254.

Carter-Murray—SH 18, 7.103 mi. grad., drain., minimum roadbed, stab. aggr. base, blended rock ash, surf., triple cell reinf. conc. culvert; Amis Construction Co., Oklahoma City, \$262,698.

Mayes—SH 20, 6.188 mi. grad. and drain., roadbed, S. E. Ex. Industrial Construction Co., Fort Smith Ark., \$209,703.

Cotton—US 70, 7.193 mi. grad., drain., road-

bed; Smith Brothers, Noble, \$94,910;

Carter—5.433 mi. grad., drain., roadbed, grav. surf.; Honneger Brothers, Kingfisher, \$47,283.

Adair—US 59, 7.320 mi. light grad., stab. aggr. base double bitum. paving; H. D. Youngman, Baxter Springs, Kan., \$269,456.

Bryan—6.296 mi. grad., drain., roadbed, grav. surf.; Haskell Lemon, Tulsa, \$39,672.

Gavilan—SH 74, 0.495 mi. grad., drain., roadbed, grav. surf. and 0.096 mi. for steel truss bridge, sidewalks at Washita River; Frost Construction Co., Hydro, \$200,298.

Tillman—US 70, 7.172 mi. grad., drain., minimum roadbed; Noland Smith, El Reno, \$65,901.

Okfuskee—US 62, 3.128 mi. grad., drain., minimum roadbed; W. D. Jeffery Construction Co., Oklahoma City, \$75,989.

OKLAHOMA CITY—State Highway Commission let contracts for projects in following counties:

Hughes—SH 68, repairs to South Canadian River bridge; Lee Harris, \$44,177.

Kay-Osage—US 60, 0.430 mi. for 2.271-ft. steel truss bridge at Arkansas River; J. A. Reinecke, \$10,622.

Mayes—SH 20, 0.119 mi. for 238-ft. L beam span bridge, sidewalks, conc. slab span bridge with sidewalks and 4 triple cell reinf. conc. culverts; Amis Construction Co., \$148,396.

Tulman—US 70, 0.034 mi. for 4 triple cell reinf. conc. culverts; G. I. Construction Co., Meeker, \$40,786.

Cotton—US 70, 0.022 mi. for 4-triple cell reinf. conc. box culverts; Moser & Kiker, El Reno, \$36,971.

Okfuskee—US 62, 0.23 mi. for 100-ft. conc. girder span bridge; D. F. Allen, Henryetta, \$36,428.

PERRY—City received low bid from John B. Martin Co., 207 Commerce Exchange Bldg., Oklahoma City, \$279,164, for 39-bed Memorial Hospital.

SEMINOLE—Seminole Memorial Hospital plans hospital, \$279,000.

SEMINOLE—City Hospital Board having plans revised for hospital, \$155,000.

TULSA—Church of Christ plans church and educational building, \$150,000.

TULSA—U. S. Chamber of Commerce, Akard Temple, plans U. S. Junior Chamber of Commerce Building, 21st and Boulder, \$220,000.

TULSA—Carver Memorial Community plans Carver Memorial Community Bldg., \$275,000.

WILBURTON—Board of Education let contract to Hudgens Construction Co., McAlester, \$17,500, residence.

WISTER—Corps of Engineers, Tulsa, let contract to Clark & Farrell, Hot Springs, Ark., \$140,312, for additional work on embankment at Water Dam, Poteau River.

WOODWARD—City, Chmn. of Hospital Board, let contract to L. E. Smith Construction Co., P. O. Box 1692, Tulsa, \$418,574, for Memorial Hospital.

WOODWARD—City Library Board let contract to H. T. Russell, Baker Hotel, \$49,587, for addition to library.

SOUTH CAROLINA

SOUTH CAROLINA—Bureau of Public Roads apportioned \$75,896 for federal aid highway work.

SOUTH CAROLINA—General Services Administration, Washington, D. C., approved post offices at Charleston, \$1,700,000; Manning, Columbia, \$614,000; Lyman, Fort Mill, Lake City, Allendale, \$200,000.

ANDERSON—Local Business Men, Anderson Chamber of Commerce Committee, proposed \$150,000 grain elevator in Anderson County.

BEAUFORT—City approved \$350,000 bond issue to finance extension and improvements sewage system.

CAMDEN—First Baptist Church let contract to Atlantic Building Corp., Columbia, \$92,993, educational building.

CAMDEN—Kirkwood Apartments, Inc., let contract to Hardee-Zuerlebaum, Florence, \$199,900, Kirkwood Apartments.

CHARLESTON—M. J. Meddin, 68 Murray Blvd., received low bid from Ruscon Construction Co., \$37,603, residence.

CHARLESTON—Woodstock Manufacturing Co., Inc., has construction underway on new plant, to replace one recently destroyed by fire, Dotterer Engineering Co., Charleston, Engrs. and Contrs. for foundation and floors; Armo Drainage and Metal Products Co., Engrs. and Contrs. of buildings, \$200,000.

CHARLESTON—Long Construction Co. plans erection of 156 apartment units, Darlington Apartments, \$1,300,000.

CHARLESTON—State Highway Department approved Engineering Co., Charleston, \$1,500,000, and bridge over Stono, \$230,000.

CHARLESTON—State Highway Depart-

ment will spend \$600,000 in paving city and county roads.

CLEMSON—Clemson College let contract to Daniel Construction Co., Greenville, ultra-modern housing project, \$2,500,000.

CLINTON—City let contracts for waterworks and sewerage improvements; Division I, Riddlehuber & Co., Inc., Greenwood, \$180,266; Division II, Riddlehuber & Co., \$118,895; Division III, R. D. Cole Mfg. Co., Newnan, Ga., \$39,620.

COLUMBIA—State Highway Department let contracts for projects in following counties:

Lexington—Doc. 32,270; George Lokey Contracting Co., \$59,841.

Union—Doc. 44,255; Suber & Co., \$88,906.

Cherokee—Doc. 11,247, Blankenship Brothers, \$93,973.

Horry—Doc. 26,269; Cherokee, Inc., \$134,273.

Georgetown—Doc. 37,294, Spotts & Co., \$101,039.

Orangeburg—Doc. 31,343, etc.; George Lokey Contracting Co., \$71,524.

COLUMBIA—State Highway Department let contracts for projects in following counties:

Greenville—Doc. 23,300, E. H. Hines Construction Co., Greenwood, \$130,507.

Fairfield—Doc. 20,229; Fox & Green, Lexington, \$118,292.

Orangeburg—Doc. 38,343; J. F. Cleaveley & Co., Orangeburg, \$61,065.

Aiken—Doc. 2,218; Claussen-Lawrence, Augusta, Ga., \$383,360.

Darlington—Doc. 6,266; Carolina Contracting Co., Columbia, \$106,887.

Florence—Doc. 21,295; Palmetto Construction Co., \$61,809.

Laurens—Doc. 30,272; Riddlehuber & Co., Greenwood, \$61,692.

COLUMBIA—George D. Lott let contract to C. G. Shockley Construction Co., \$38,182, warehouse.

COLUMBIA—Board of Trustees, Epworth Orphanage, received low bid from Carolina Construction Co., \$147,868, two children's cottages.

COLUMBIA—Housing Authority construct 700-unit low-cost housing project, \$120,000.

COLUMBIA—Good Samaritan-Waverly Hospital let contract to C. G. Shockley Construction Co., 1211 1/2 Washington, \$150,000, Negro hospital.

COLUMBIA—Public Buildings Administration let contract to Westinghouse Electric Corp., Jersey City, N. J., \$77,757, elevator plant, Veterans Administration Office Building.

COLUMBIA—City, Dir. of Public Works, let contract to Atlantic Building Corp., 1735 Pinehurst Road, \$224,973, headquarters fire station and repair shop.

COLUMBIA—Eau Claire Baptist Church let contract to Builders, Inc., \$82,341, auditorium.

FOLLY BEACH—City plans public water system, \$500,000.

GEORGETOWN—Corps of Engineers, Charleston, let contract to Atkinson Dredging Co., Great Bridge, Va., \$153,467, maintenance dredging of Sampit River and Eastern Channel.

GREENVILLE—City approved issuance of \$345,000 bond issue for fire department equipment and facilities and \$120,000 bond issue, new parks and improvements of present parks.

GREENVILLE—City approved issuance of \$300,000 bond issue, sidewalk and street improvements.

GREENVILLE—City approved \$500,000 bond issue expansion of sewerage system.

GREENVILLE—City approved issuance of \$225,000 bond issue, expansion of Greenville Municipal Airport.

GREENWOOD—Greenwood County Electric Power Commission let contract to C. Y. Thomason Co., \$60,875, headquarters bldg.

LYNCHBURG—Board of Trustees of Lynchburg School District let contract to Georgia Engineering Co., Florence, \$52,900, schools.

MONCK'S CORNER—Berkeley Electric Cooperative, Inc., let contract to E. C. Bridges, Heath Springs, \$87,500, 68.3 miles of distribution lines.

ROCK HILL—Board of Trustees let contract to George L. Fuller Construction Co., Augusta, Ga., \$75,140, school.

SPARTANBURG—Board of Trustees Cooperative School let contract to W. M. Fine, 515 W. Main, \$66,145, addition to school.

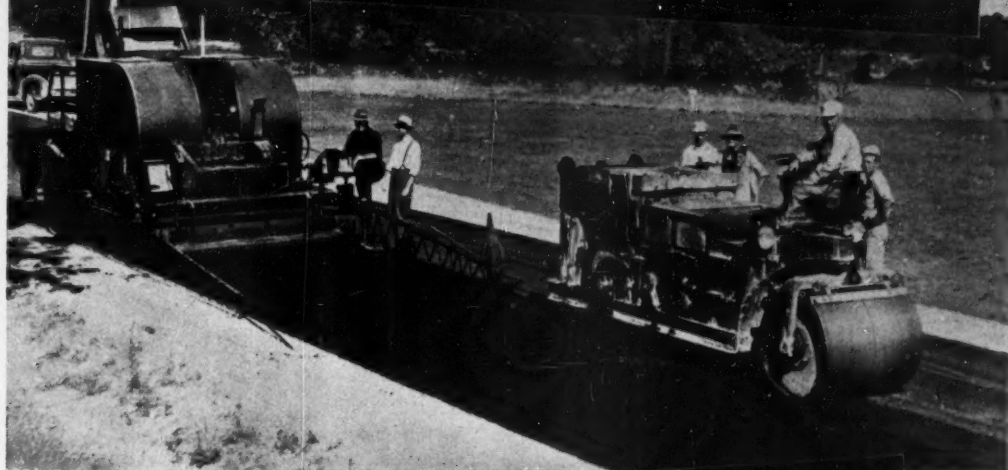
WILLIAMSTON—Textron, Inc., Anderson, let contract to Daniel Construction Co., 429 N. Main, Greenville, filament rayon weaving plant, \$4,000,000.

YEMASSEE—South Carolina Power Co., P. O. Box 952, Charleston, will call for bids some time in February for 110,000 volt transmission line, \$260,000.

(More on page 44)

**FOR HEAVY MIXING, RETREAD
AND STABILIZATION JOBS -**

Under the toughest of operating conditions



THE NEW Heavy Duty MOTO-PAVER



The Moto-Paver is a very flexible as well as a mobile unit. The illustration shows it being used as a stationary mixing plant.

Although developed primarily to meet the rugged conditions of hilly and mountainous terrain, the heavy duty Moto-Paver is proving equally efficient under widely differing conditions in other sections of the country.

Wherever you have a heavy bituminous mixing, retread or stabilization job, it will pay you to investigate this new and more powerful Moto-Paver. It does the *complete mixing and laying job—in one continuous operation*. See your local distributor listed below, or write direct for specifications and complete information on either the heavy duty or standard Moto-Paver.

NETHERINGTON & BERNER INC., 751 KENTUCKY AVE., INDIANAPOLIS 7, IND.

DISTRIBUTORS

McILHANY EQUIPMENT COMPANY
Roanoke, Virginia

SOUTH CAROLINA EQUIPMENT COMPANY
Columbia, South Carolina

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NIXON MACHINERY COMPANY
Nashville, Tennessee

NIXON MACHINERY & SUPPLY CO.
Chattanooga, Tennessee

BLALOCK MACHINERY & EQUIPMENT CO.
Atlanta 2, Georgia





8
Why

Model
HD-10

86.63 drawbar hp.

Six speeds forward, to 6.03 m.p.h.; two reverse, to 4.15. Weight: 62" tread, 21,000 lbs.; 74" tread, 21,600 lbs. Available with large idler.

Let the Outstanding Advantages of These AHEAD-OF-THE-TIME Tractors Boost Your Production and Cut Your Costs...as They Have for Thousands of Owners

1 1,000-HOUR LUBRICATION of truck wheels, support rollers and idlers. You operate six months on a 40-hour week basis with just *one lubrication* . . . instead of daily, or even weekly, attention. Think what this means in labor and lubricant savings . . . and in working time gained! Think of the safety factor, too—no costly damage by greasing neglect.

2 GENERAL MOTORS 2-CYCLE DIESEL ENGINE Rugged, simple, economical, "hanging-on" power. Smooth—every down stroke a power stroke . . . less wear and tear on tractor and operator. Far less power loss than other engines at high altitudes.

3 INTERCHANGEABLE ENGINE PARTS Nearly all of the GM engine wearing parts are interchangeable with each of the GM engines on the various models of A-C tractors and motor graders—no matter the size. Lowers parts investment, simplifies maintenance for Allis-Chalmers fleet owners.

4 INSTANT STARTING GM 2-cycle diesel engines start as easily as your automobile . . . and they *start and operate on diesel fuel*. No need to let 'em idle during work-stop periods—no unnecessary engine wear or fuel waste.

*Ask any owner...or arrange for a demonstration with your Allis-Chalmers dealer
..."SEEING IS BELIEVING"*

Big Reasons *they're so popular*



Model **HD-7**

60.10 drawbar hp.

Four speeds forward, to 5.00 m.p.h.;
reverse to 1.89. Weight: 52" tread,
13,830 lbs.; 63" tread, 14,000 lbs.
Available with large idler.

5 FAST MANEUVERING 2-cycle diesel tractors are well known for their fast-working ability — not only for quickly traveling from cut to fill, but for turning around instantly in their tracks . . . and for easy maneuvering in and around tight places — especially important on bulldozing. Time saved is money made!

6 PROPER BALANCE Weight, speed and power are positively balanced in A-C tractors, assuring top performance on every job — pulling, pushing, lifting.

7 OPERATOR COMFORT All these advantages mean operator satisfaction, too — resulting in more work done more easily. Besides — he has a big, wide, comfortable seat, cushioned back, arm rests, roomy platform, convenient controls, good vision.

8 MATCHED ALLIED EQUIPMENT Each Allied manufacturer, skilled in his own field, works in complete cooperation with Allis-Chalmers in designing and building auxiliary equipment.

ALLIS-CHALMERS

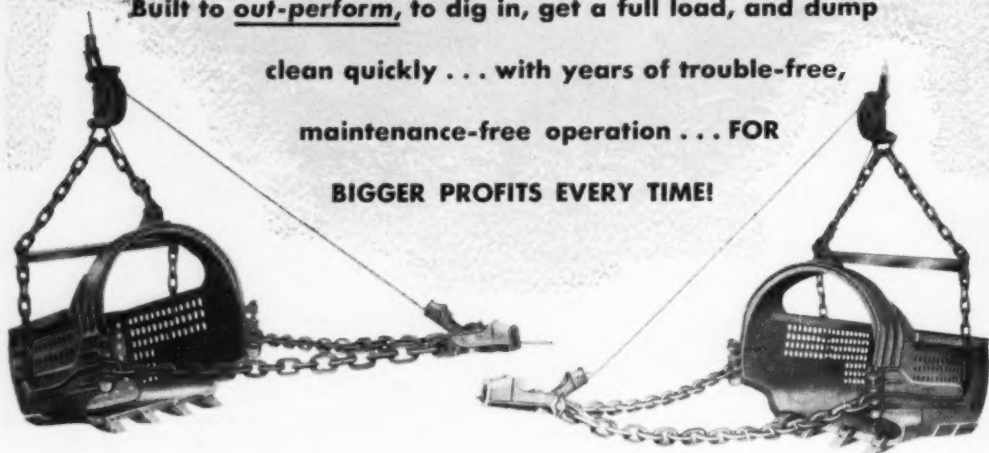
TRACTOR DIVISION • MILWAUKEE 1, U. S. A.

Originator of the Torque Converter Tractor

Matchless

Matchless ability to hang onto a load and put dirt where you want it fast . . . that's the kind of performance you get with **HENDRIX DRAGLINE BUCKETS** on every earth-moving job.

Built to out-perform, to dig in, get a full load, and dump clean quickly . . . with years of trouble-free, maintenance-free operation . . . **FOR BIGGER PROFITS EVERY TIME!**



LOWER MAINTENANCE—HIGHER PROFITS

**3 TYPES
FOR EVERY DIGGING
PURPOSE**

**3/8 to 40
CUBIC YARDS**

HENDRIX
Lightweight
**DRAGLINE
BUCKETS**

- ★ Full Payload Every Trip . . . **FOR MORE PROFIT!**
- ★ Rugged All-Welded Construction . . . **LOWER MAINTENANCE COST!**
- ★ 14% Manganese Steel Chains and Fittings . . . **STANDARD ON ALL SIZES!**
- ★ A Type for Every Job . . . light, medium, and heavy-duty. **WITH OR WITHOUT PERFORATIONS.**

For descriptive literature ask your dealer
or write

HENDRIX MANUFACTURING CO., INC.

MANSFIELD — LOUISIANA

answer man *

*Difficult problem
relating to the use
of cement?

Chances are the
Hermitage Service
Engineer has
solved it before.

If not,
he's ready to
solve it now.
Call him in and
put him on
the job.



Hermitage Portland Cement Company • AMERICAN TRUST BUILDING, NASHVILLE 3, TENN.

PORTLAND
HIGH EARLY STRENGTH
AIR ENTRAINING
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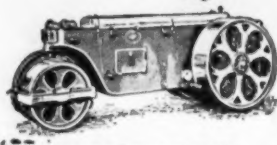


CONSTRUCTION AND ROAD MAINTENANCE MEN MUST CUT COSTS TOO!

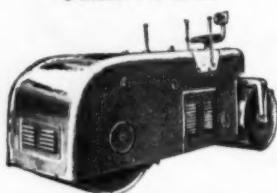


how?

USE THE MAINTAINER On Jobs Now Tying Up Big Equipment



HUBER 3-WHEEL ROLLERS
5 models—5 to 12 tons



HUBER TANDEM ROLLERS
6 models—3 to 14 tons

Put the versatile Huber Maintainer to work on your new construction or maintenance program. It will "pay off" by doing cheaper and faster the many odd jobs and maintenance work now tying up heavy equipment. It's a money maker in its own right—ideal for road, street and airport construction and upkeep. With its 42½ H.P. engine and 20 miles per hour speed the Maintainer really covers the job. With its hydraulically operated attachments it is readily converted to a bulldozer, patch roller, rotary broom, lift-loader, snow plow, berm leveler, road planer or mower. Ask any Huber owner about the Maintainer—he'll vouch for its dependability, long life and all-round performance.

Other Huber road machinery built to make your construction work more profitable includes: 3-wheel automotive type road rollers, tandem rollers and trench rollers. Write today for descriptive bulletins and name of your Huber dealer.



THE **HUBER** MFG. COMPANY • MARION, OHIO, U. S. A.

LEARY & OWENS MACHINERY CO., INC.
Birmingham, Ala.

LEARY & OWENS MACHINERY CO., INC.
Montgomery, Ala.

TRI-STATE EQUIPMENT CO.
Memphis 2, Tenn.

TRI-STATE EQUIPMENT CO.
Little Rock, Ark.

MUNICIPAL SALES CO.
Richmond, Va.

FLORIDA EQUIPMENT CO. OF JACKSONVILLE
Jacksonville, Fla. (3)

FLORIDA EQUIPMENT CO. OF TAMPA
Tampa, Fla.

FLORIDA EQUIPMENT CO. OF MIAMI
Miami, Fla.

W. B. HAMILL, INC.
Charleston, W. Va. — Maintainers Only

THE CHESAPEAKE SUPPLY & EQUIP. CO.
Baltimore 18, Maryland

CHESAPEAKE SUPPLY & EQUIP. CORP.
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W. VIRGINIA TRACTOR & EQUIP. CO.
Charleston 22, Clarksburg, W. Va. — Rollers Only

GULF ENGINE AND EQUIP. CO.
Mobile 6, Ala.

INTERSTATE EQUIPMENT CO.
Statesville, N. C.

WILSON MACHINERY & SUPPLY CO.
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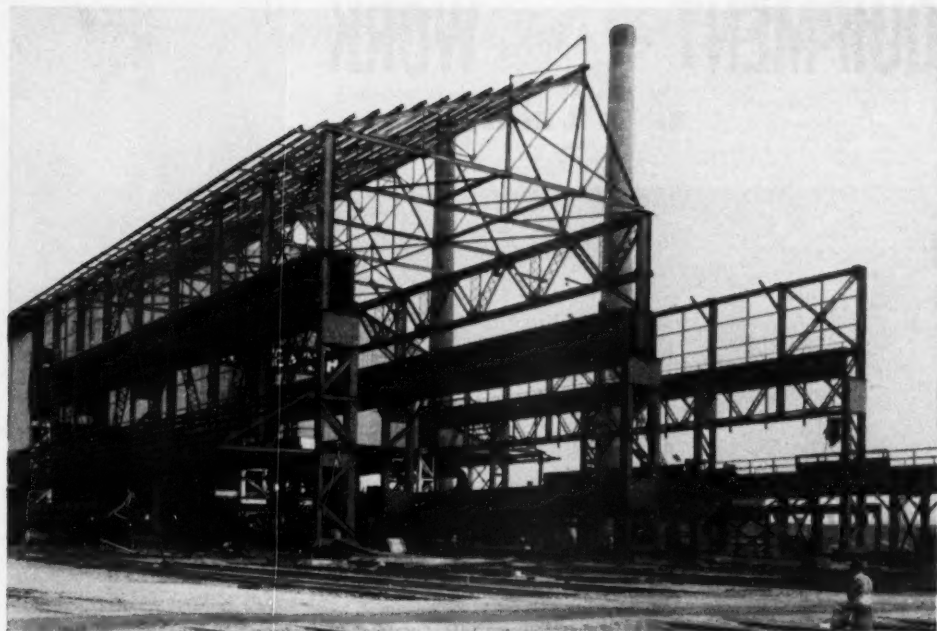
ROY C. WHAYNE SUPPLY CO.
Louisville 2, Paducah, Ky. — Rollers Only

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BREWER EQUIP. & SUPPLY CO.
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E. C. RAY MACHINERY CO.
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Steel Mill Building—Fabricated and erected by Virginia Bridge Company.

VIRGINIA BRIDGE—means "Structural Steel Service at its Best"

Large or small, complicated or simple, whatever your structural steel requirement you will find at Virginia Bridge the kind of engineering, fabricating and erecting service that adds plus-value to your construction dollar. Step by step from the drawing board to the completed job every element of modern production efficiency is carefully plotted to promote economies and to avoid inconvenient expensive delays to your over-all construction schedule.

Our three plants are conveniently located to afford the South and Southwest a structural steel fabricating and erecting service second to none.

Welded or riveted, large or small, if it's structural steel we welcome your inquiries

Virginia Bridge Company

Plants: Roanoke, Va., Birmingham, Ala., Memphis, Tenn.

ROANOKE

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MEMPHIS

NEW YORK

ATLANTA

DALLAS



UNITED STATES STEEL

EQUIPMENT WORK

By L. H. Houck



Above—Russell Bros., fire clay producers, Owensville, Mo., use this Scoopmobile to load trucks at the bottom of a strip pit. The vehicle is equipped with a Chrysler industrial engine.

Right—Top—This Chicago Pneumatic drill has worked steadily for five years without any repair cost except a chuck. Owned by Matlock & Morris, Linn, Mo.

Right—Middle—W. H. Matlock and V. W. Morris, owners of a lime quarry, Linn, Mo., find their Hough Payloader ideal for payloads from quarry to crusher. Payloader engine U-9 International.

Right—Bottom—Lorain owned by Belcher Carriage Co., Kansas City, shown installing Christmas trees on Plaza district roofs.

Reinkemeyer Brothers, Vienna, Mo., have operated this 4-cylinder Series 71 General Motors diesel for five 10-month seasons without repair cost of any kind and engine uses no oil between drains. Production is 100 tons of lime daily. Crusher is a Williams

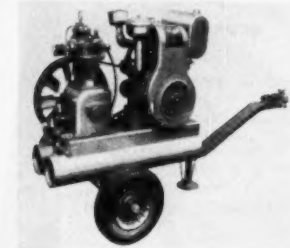
Matlock & Morris, Linn, Mo., started from scratch in 1947. Triple X Gruendler crusher is powered by 6-cylinder Series 71 General Motors diesel, v-belts by Gates, 150 tons of lime daily.



Equipment and Material Makers' News

Mounted Gardner-Denver Portable Compressor

A new line of easily handled trailer-mounted portable compressors has been developed by Gardner-Denver Company, Quincy, Ill. Designed especially for operating small air tools on miscellaneous service jobs, these new compressor units are said to be ideal for painting contractors, stone masons, monument workers, public utilities and industrial plants. Capacity is ample for operating paint spray



Gardner-Denver Trailer Compressor

guns, chipping hammers, light paving breakers, spaders, tampers and similar pneumatic equipment.

The Gardner-Denver trailer-mounted units are furnished complete—the air-cooled compressor, with V-belt drive to gasoline engine, mounted on a sturdy pipe tank type base. The unit is equipped with non-pneumatic rubber-tired roller-bearing wheels, drawbar, trailer hitch and stabilizer leg—which can be readily towed behind a car or service truck.

The compressor is built to the same high standards of quality, the manufacturer reports, which have made the larger Gardner-Denver compressors famous throughout industry, mining and construction. The forged steel crankshaft, for example, is supported on both sides of the throw by adjustable Timken Tapered Roller Bearings.

Three sizes are available, and all units are carefully balanced for one-man handling.

Koehring Paver Catalog

A discussion of the relative production capacities of single drum and two-compartment drum pavers is featured in the new catalog released by the Koehring Co. of Milwaukee, Wis., recently. The remainder of the bulletin is devoted to a complete description of the improved Koehring unit, the 34-E Twinbatch Paver.

More than 45 photographs and illustrations graphically describe the high capacity production features developed in the new catalog. Time-tested engineering details are discussed such as, Koehring's exclusive design crawler shoes and three-point unit suspension mounting that increases operating stability, the 34-E's big, flowline skip for fast drum charging and the accurate syphon-type water measuring system that assures uniformly consistent concrete production under any operating conditions.

Additional diagrams illustrate Koehring's oscillating boom feature that keeps the discharge bucket in a constant vertical position and the positive opening and closing of transfer and discharge chutes that are mounted in the sturdy, steel-plated two-compartment mixing drum.

Mechanical features are outlined and described in detail along with a photographic presentation of Twinbatch Pavers operating on unusual projects. The bulletin is printed in two colors.

Tournapull With Dozer Blade

A bulldozer blade attached to the Model D Roadster Tournapull, is being announced by R. C. LeTourneau, Inc., Peoria, Ill., earth-moving equipment manufacturer. The dozer blade is suspended in front of the Tournapull, cable-actuated and is electrically-controlled by a switch mounted on the dash control panel. The blade has a bowl length of 6 feet 8½ inches, height of blade and bowl is 32½ inches. Its cutting edge is reversible, with hard-surfaced, replaceable tips, and can be raised 3 feet above the ground.

Link-Belt Book for Grain and Allied Industries

A 20-page Book No. 2305 has been published by Link-Belt Co., Chicago, Ill., illustrating and briefly describing the materials-handling and power-transmission equipment that the company most commonly supplies to the grain and allied processing industries for efficient, low-cost operation.

This equipment includes box car unloaders, power unloading scoops, electric car spotters, screw conveyors, bucket elevators, Bulk-Flo conveyors, belt conveyors, oscillating conveyors, vibrating screens, bean flake dryers-coolers, "HS" high-speed elevator buckets, conveyor idlers, welded steel pulleys, chain drives, Electrofluid drives, Gersmotes, variable speed drives, automatic backstops, bearings, take-ups, clutches, couplings, etc.

Tractor Refueling Hose

A new light weight, high strength hose designed for refueling tractors and other motorized farm equipment from either barrel or tank has been developed by United States Rubber Co., New York, N. Y.

The hose is constructed with an oil resistant tube made of Neoprene, a rayon braid carcass, built-in static wire and a rubber cover especially designed to withstand abrasion. It is available in sizes ranging from ½-inch to one inch inner diameter in either specified cut lengths or random factory lengths. It will be marketed under the name U. S. Rainbow Farm Fuel Dispensing Hose.

Link-Belt Transfers

Link-Belt Co. announces the following changes in plant management personnel:

Richard E. Whitney, now assistant general manager at the company's Dodge plant, Indianapolis, will on May 1, 1950, assume the duties of assistant general manager at the Ewart plant, Indianapolis.

Raymond S. Wood, general manager at the Minneapolis plant, will transfer to Indianapolis on February 1 to become assistant general manager at the Dodge plant, replacing Mr. Whitney.

Leslie J. Carson, formerly chief engineer at San Francisco and at present chief engineer at the Caldwell plant in Chicago, will move to Indianapolis on January 1 to assume the position of general manager of the Minneapolis plant and the North Central sales division.

William P. Ridsdale, who has been chief engineer at Dallas and Houston since 1946, and formerly was a member of both the engineering and sales departments at Caldwell, Chicago, has returned to Chicago to become chief engineer of the Caldwell plant.

Allis-Chalmers Proposes Employee Retirement Plan

The Allis-Chalmers Manufacturing Co. is preparing a proposed retirement plan for all of its 30,000 employees. In addition, the company is studying improvements in its health and accident plan recently suggested by the West Allis Works Mutual Aid Society. The mutual aid societies are operated locally at each plant, with the company matching employee's contributions.

The combined initial annual cost of the two programs, with other insurance benefits now in effect, was estimated to be approximately 11 cents per payroll hour or between \$6,000,000 and \$7,000,000.

In a letter to the company's 30,000 employees, Walter Geist, Allis-Chalmers president, pointed out, "These plans can be continued in effect so as to be of benefit to employees only if the company prospers so that it can bear the cost, and the prosperity of the company depends upon all of us working as a team."

Adams TraveLoader

J. D. Adams Manufacturing Co., Indianapolis, Ind., announces a new self-propelled, self-feed, belt-type loader to be known as Adams TraveLoader.

The machine is designed to pick up and load any type of material which can be windrowed and which will pass up a conveyor belt; this includes dirt, sod, sand, gravel, oil-mix, surplus unrefined material, and snow. A revolving feeder, with 12 curved and

beveled edge blades, moves the material up a metal pan and places it on the revolving conveyor belt.

The feeder is hinged at the rear and is free to float so as to adapt itself readily to any size windrow. The gathering molds to the side of the feeder are adjustable to windrow width so as to keep the material flowing readily in a continuous stream through the feeder with the least possible friction and power loss.

The rear section of the conveyor is adjustable so as to provide a wide range of discharge heights. The claims for this wide adjustability (exclusive with this machine) are that by carrying the discharge height as low as possible to accommodate all trucks on the job the discharged load can be better distributed in the truck bed without spillage and dust is held to a minimum when dry material is being handled.

New Works Manager

Appointment of K. W. Horsman as works manager at the Dunellen, N. J., works, to succeed B. R. McBeth who has resigned, has been announced by Worthington Pump and Machinery Corp., N. J. Mr. Horsman joined Worthington in 1929 as a field engineer. He later became superintendent of the steel construction shop, and in 1945 was transferred from Harrison to Dunellen.

The Dunellen works is the manufacturing plant for construction equipment, welding positioners, and water treating equipment.

Parsons Trenchmobile Catalog

Latest addition to the Parsons line of Trenchliners, the utility-size, rubber-tired mounted Model 80 Trenchmobile, is described in detail in an attractive 8-page catalog recently published by the Parsons Co. of Newton, Iowa. Parsons is a subsidiary of the Koehring Co. of Milwaukee.

One-man operated, the Trenchmobile is designed for fast and profitable handling of small digging assignments formerly done by slow and costly hand methods. It travels anywhere under its own power at rapid speeds. Tractor-type pneumatic tires avoid damage to sidewalks, lawns and curbs in work or travel.

Sturdily built and powered by a 31 h.p. 4-cylinder gasoline engine, the Trenchmobile is equipped to dig in eight separate feeds from 1.7 to 14.6 feet per minute, 3 or 8 inches wide and up to 4 feet deep. Other features include automotive type steering and direct mechan-



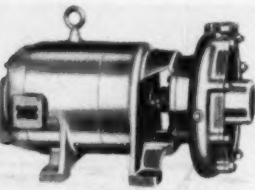
ical drive through enclosed friction clutches for raising and lowering the box-type boom. Equipped with the optional dozer blade, the Trenchmobile also can be used for backfilling.

The new catalog carries many action photographs to illustrate principal Trenchmobile heavy-duty construction and its many applications in installing conduit, off-street connections, gas lines and water services, airport, railroad and golf course maintenance work. Schematic diagrams and engineering specifications are listed in addition for a concise summary of the new unit's design and performance.

"Alta" Centrifugal Pumps

Gorman-Rupp Co., Mansfield, Ohio, recently announced a new line of close-coupled and pedestal-mounted centrifugal pumps. Called the "Alta" line, these new pumps are designed to give superior performance under varying conditions of pressure and suction lift. Alta pumps have a versatility in application that provides definite economy and a wide field of application.

Tests have shown that these pumps operate at high efficiencies, with resulting economy in use of power. The new line combines all the advantages of exact hydraulic engineering and mechanical design to provide a wide range of uses for not only water but for all liquids and solutions up to 2000 viscosity. While designing the new Alta Pump, Gorman-Rupp engineers determined to develop features that would lower the cost of maintenance. First, the pressure at the stuffing



Gorman-Rupp Alta Pump

box has been relieved by means of balance rings. This prevents a rapid wear-out of the packing rings. In addition, the stainless steel shaft sleeve is not subjected to heavy wear in cases of higher pressures at the stuffing box. At higher suction lifts these pumps operate quietly.

All Gorman-Rupp standard centrifugal pumps, Alta and pedestal mounted alike, are built to such dimensions that they may be interchanged on different sizes of electric motors as well as on power frames (pedestals), without alterations of shaft and flange mountings. Materials include cast iron, bronze, bronze-fitted and special alloys.

The Gorman-Rupp Company designed these new Alta Pumps for general industrial use, agricultural and irrigation use, marine, mining and municipal use as well as for heating and ventilating.

Ceco Constructs Addition

Ceco Steel Products Corporation has begun construction on a new addition to its Plant No. 1 at 5701 West 26th Street, Chicago. It was recently announced by Ned A. Ochiltree, president.

The addition, which will be at the rear of the present main plant, will provide 50,000 square feet of added floor space. Main purpose is to provide warehouse facilities for the company's building products made in off-season months, thus stabilizing employment.

The addition also will allow the company to increase manufacturing facilities for (1) windows for monumental buildings and (2) steel joists.

Other Ceco buildings also are going up in the company's nationwide expansion program. In Birmingham, Ala., a new plant and office buildings are under construction.

Within the last year, the company has erected new plants and offices at Washington, D. C., San Francisco, Calif., and Detroit, Mich., and has leased a plant in Martin's Ferry, Ohio.

During the year previous it erected a new plant and office building at Houston, Texas, and Hillside, N. J.

In all there are 28 district offices and 14 plants.

Joy Issues the WL-80 Unitair Compressor Bulletin

The Joy Manufacturing Co., Henry W. Oliver Building, Pittsburgh 22, Pa., announces a new 16-page fact-packed bulletin on WL-80 Unitair compressors. The bulletin includes an easy-to-use selector chart plus detailed section drawings and parts photographs illustrating economy and operating features.

The Joy Unitair is available in 11 sizes, 15 to 125 H. P., with piston displacements from 81 to 640 CFM at 125 maximum pressure. These two-stage, air cooled compressors are furnished as complete motor driven units with three standard electric drives including built-in motor, direct-connected and V-belt drive. Unitair Compressors may also be equipped

with gas or diesel engine. The Unitair, referred to by Joy as a compressor of a thousand uses, has application in factories, foundries, mills, and plants.

Promotions Announced by Universal-Atlas

Two plant management promotions were announced in New York by L. M. Funderburg, vice president, operations, of Universal Atlas Cement Co., a subsidiary of United States Steel.

Joseph B. Lewis, for the past seven years manager of the cement company's plant at Buffington, Ind., is appointed assistant to vice president, operations, and W. Owen Lawrence, assistant plant manager at the Buffington plant for the past two years, is advanced to plant manager succeeding Mr. Lewis.

Mr. Lewis majored in engineering at Allegheny College, Meadville, Pa., and also studied drafting, civil engineering and chemical analysis. He began work with the cement company as a tester in the laboratory at the Universal, Pa., plant in 1907, transferred to the Buffington plant as an inspector in 1911 and was appointed Superintendent of Mills 3, 4 and 6 in 1918. In 1928, he became assistant general superintendent of the Buffington plant and was appointed plant manager, January 1, 1943.

Mr. Lawrence joined the cement company in 1933 at Leeds, Ala., where he served in several capacities before going to the New York office for two years as field engineer. He returned to Leeds in 1942 as plant engineer, became assistant plant manager in 1944 and was appointed assistant plant manager at the company's Buffington plant January 1, 1948.

On-The-Job Service Training

The Detroit Diesel Engine Division of General Motors has found one solution to the contractor's problem of keeping expensive equipment working at top speed under adverse conditions. As few contractors have the time or facilities to train their service men in proper maintenance practices, the job is started, Detroit Diesel has stepped up to the situation with two mobile Diesel engine training schools manned by competent factory instructors. Each unit carries all the equipment needed for a two-day course in advanced Diesel engine mechanics on a smartly designed GMC two-ton cab-over-engine truck.

A 3-cylinder cutaway engine makes it easy for trainees to see and thoroughly understand the construction and operation of the GM 2-cylinder Diesel engine. After instruction in engine tune-up and diagnosis has been given, another engine is thoroughly "gummed up" by the instructors and the class works to locate its "troubles" and get it running smoothly again. Monometer testing apparatus, sub-assemblies, charts, movies, slides, and many other items contribute to the effectiveness of the course. The equipment can be unloaded from the truck and set up ready for school in half an hour. Service problems peculiar to the job at hand are discussed and methods advanced for their solution. Demonstrations are made of simple, easily-performed preventive measures that help eliminate costly breakdowns and help keep expensive equipment on the job at maximum efficiency.

One of these units recently visited Downsview Dam, New York City's huge water supply project. There employees of D. Peirce & Sons, Walsh Construction Co., and their sub-contractors attended the two-day session. On this job 110 pieces of Diesel-powered equipment alone are in operation. Other projects visited by these schools include Garrison Dam, Aspen Tunnel and many others both east and west of the Mississippi River where GM Diesel-driven equipment is assembled. The schools operate throughout the year on schedules arranged through the Division's distributors and dealers.

Hyster Company Opens New Building

Hyster Company, Portland, Oregon, recently opened its new industrial truck retail sales and service building at 4445 Third Street, San Francisco 24, Calif., according to Ray Ronald, western division sales manager.

The new store, covering 10,000 square feet, is located on a four-lane, arterial highway in a rapidly developing industrial area, and is considered one of the most modern materials handling equipment distributorships in the United States. Complete service for all makes of industrial trucks is provided in the 7,200 square feet of the maintenance shop.

R. L. Golden is manager of the organization, whose staff of 18 persons handles industrial truck sales and service in 43 counties of northern California and 11 counties of western Nevada.

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WORKS

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St. Louis 10, Mo.

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MACHINERY CO.
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EQUIPMENT CO.
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ROAD BUILDERS
EQUIPMENT COMPANY
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SOUTHERN STATES
EQUIPMENT CO.
New Orleans 11, La.

CAROLINA TRACTOR &
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W. C. CAYE & COMPANY
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JEFF HUNT MACHINERY
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BRANDEIS MACHINERY &
SUPPLY CO.
Louisville 8, Ky.

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MACHINERY CO.
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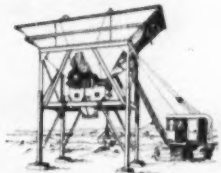
Look to **BLAW-KNOX** for **PROFIT-MAKING EQUIPMENT**



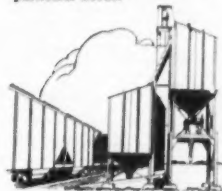
CLAMSHELL BUCKETS for high yardage, low cost material handling. Wide range of types and sizes to meet every job requirement.



CONCRETE BUCKETS for handling huge quantities of low-slump concrete. Exclusive Roller Gate design speeds work, cuts concrete pouring costs.



PORTABLE AGGREGATE BATCHING PLANTS are supplied in various compartment styles and capacities to meet your particular needs.



PORTABLE BULK CEMENT PLANTS in a wide range of sizes are available for large or small jobs.

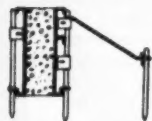


HI-BOY TRUKMIXER with the revolutionary revolving hopper that permits faster charging and discharging of lowest slump concrete, with minimum seal maintenance.

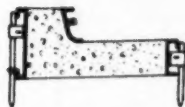


Typical Blaw-Knox Steel Curb and Gutter Form set-up for straight work. Flexible Steel Radius Forms also available for curved work of fixed or variable radius.

FOR greater profit on your next curb and gutter job, start building your set of Blaw-Knox Steel Curb and Gutter Forms—now... expand it any time to handle a wide variety of work. And Blaw-Knox Steel Forms last longer, can be used over and over again in combinations to fit any job, give you the utmost in speed and economy. There's no time or money wasted building expensive wood forms, no costly carpentry required on curves which are always the most expensive and difficult to construct. You get better quality work and make more profit. To choose the set of Blaw-Knox Curb and Gutter Forms most adaptable to your present and future requirements, write for Bulletin 2259.



STRAIGHT CURB FORMS. For curb with both faces vertical. Auxiliary bracing system for lateral stability.



CURB AND GUTTER FORMS. For concrete curb and gutter when curb is battered and has radius at bottom.



SIDEWALK FORMS. Furnished for any required width or thickness of sidewalk.

Economy-minded construction men use the Blaw-Knox "Complete Package" to insure a unified production set-up that operates at a profit on every job. In the Blaw-Knox *one-source* package, you'll find everything you need for 100% mechanized concrete construction... Precision Subgraders, Paving Spreader-Vibrators, Finishing Machines, Portable Batching Plants for aggregates and bulk cement, Central Mixing Plants, and a complete packaged Ready-Mix Plant plus the revolutionary Hi-Boy Trukmixer.

BLAW-KNOX DIVISION

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Jaeger Aggregate Spreader is Self-Propelled

A self-propelled aggregate spreader, said to be the first machine of its kind which accurately lays all base and surface aggregates, free-flowing bituminous mixtures and plant-mixed stabilized soils, has been announced by the Jaeger Machine Co., Columbus, Ohio.

Costing less than half as much as standard bituminous pavers which are often pressed into spreader service, the machine has many unusual design and mechanical features for accuracy, speed and flexibility of operation. Powerful four-wheel drive is always on the subgrade or rolled course, never on the newly laid material. There is no displacement or disturbance of the laid aggregate to cause irregularities, uneven compaction and later costly repairs.

The machine lays any size of aggregate up to 4-inch stone, in thicknesses up to 10 inches, with positive accuracy. Its strikeoff screed is carried by long straightedge runners which glide smoothly on the subgrade despite any up and down motion of the wheels and machine itself. These runners average out irregularities of the subgrade while the closely-adjustable screed produces a uniformly smooth and accurate surface. Screed is quickly and easily adjusted from the top by hand-crank for any desired thickness of material, crown, wedge, or leveling course.

This new spreader is easily adjusted for laying materials in any width from 8 to 12½ feet. For widths from 10 to 12½ feet, hand-operated crank extends the transverse telescopic shaft between the straightedge runners and simple insensate increase screed width in increments of 6 inches. For widths from 10 to 8 feet, block-off plates are provided. Blender



Self-Propelled Jaeger Spreader

wings at the ends of the strikeoff screed blend the joint between adjacent lanes perfectly. Two of these low-cost spreaders, working in tandem, can lay a course up to 25 feet wide in one accurately blended surface—enabling the contractor to roll that full 25-foot width in one operation. This tandem use also assures laying base courses with double speed and frees the contractor's costlier bituminous paver for the work for which it is intended—precision spreading and finishing of the bituminous top.

The two-ton hopper easily accommodates material from any size truck—lays it as fast as trucks can deliver. Automatic transmission and powerful Continental gasoline engine offer 12 to 100-fpm forward speeds and ½ to 3½-mph reverse speeds. The unit is self-transporting. A hydraulic ram lifts screed and runners up to 3 inches for quick backing and maneuvering.

P. & H. Dockside Cranes Unload Ships in Fast Time

The short-time discharge of 2650 net tons of cargo from the S.S. Stencille Hall at Ogdensburg, N. Y., in 39 hours, recently was accomplished by the use of four P&H Cranes working on shore. These were equipped with slings for handling bundles of aluminum ingots, which weighed 2100 pounds. Each crane required only one operator, with the four cranes performing separate and simultaneous unloading. In this case, for ship unloading the same number of operators would have been needed for operating only two of the donkey-engine-powered cargo booms.

Credit for this unique cost-cutting unloading operation method goes to McConville, Inc., Ogdensburg, who moved the aluminum cargo from the ship's hold to the Massena, N. Y., fabricating division of the Aluminum Co. of America. The four P&H cranes were contracted for this service by McConville, Inc. The cranes were one P&H Model 150-A truck crane, one Model 150 crawler crane and two P&H Model 255-A crawler cranes. No down time was reported although the four cranes operated continuously for 39 hours, and performance in this type of service was very impressive, according to this company.

DiesElectric Locomotive Crane

A new 25-ton DiesElectric locomotive crane is announced by American Holst & Derrick Co., St. Paul, Minn. The new unit, designated as the American Model 825 DE, is manufactured under the company's patent for DiesElectric locomotive cranes.

All deck operations are accomplished by Diesel power direct from the engine. Travel is by electric motors, mounted in each truck. A direct connected, traction-type generator supplies the current. Thousands of pounds of wearing parts have been eliminated resulting in sharply reduced maintenance costs.

A new 4-page brochure highlighting the new crane is available.

Julius P. Heil Dies

Julius P. Heil, founder and chairman of the Board of the Heil Co., Milwaukee, died recently when he suffered a heart attack while pheasant hunting in southern Wisconsin. He was 73 years old.

As a young man he traveled widely throughout the world installing a newly patented process of welding street car rails. In 1899 he installed the first electric railway in Buenos Aires.

In 1901 he founded his own company with savings of \$550 and three employees. Early products included welded truck bodies, storage and transport tanks. He weathered the first ten difficult years by working from twelve to sixteen hours a day for a salary of \$2 per day. Mr. Heil began the manufacture of oil-fired home heating units and water systems in 1924. In 1930 the company produced the first mobile farm forage crop dehydrators and started building bottle washers in 1934. By 1936, Heil was manufacturing bulldozers and scrapers for the construction industry.

Since these beginnings, the Heil Company has made many significant contributions in all fields. World "firsts" include welded stainless steel milk tanks, frameless "trailerized" transport tanks, fully hydraulic steering mechanisms, mobile farm crop dehydrators, self-propelled forage crop harvesters, and many others.

Julius P. Heil was active in countless social, civic, and philanthropic organizations. He was a 33rd degree Mason, potentate of Tripoli Shrine, exalted ruler of the Milwaukee Elks, served in guiding many local clubs, hospitals and charities in fund raising campaigns. In 1945 he was awarded a Doctor's Degree (L.H.D.) by Northland College at Ashland, Wis., in recognition of his humanitarian activities and his service to his beloved state of Wisconsin.

Chain Belt to Enter Exhibition

Chain Belt Co. of Milwaukee, Wis., will occupy booths No. 70, 71, 72, 81, 82, and 83 at the Exhibition of the Sand & Gravel Association and the National Ready Mixed Concrete Association which is being held in Chicago at the Hotel Stevens, January 23 through 27, 1950.

Chain Belt will have on display for the first time, the new Rex 4½ Yd. Adjustable Moto-Mixer, and this machine will be in operation. The second machine in this booth will be a Rex 3 Yd. Hi-Discharge Moto-Mixer.

In addition to these two mixers, a 4½ Yd. hi-discharge machine will be mounted on a Dodge dual axle truck in the Dodge Booth.

Straight Centrifugal Pumps Added to Marlow Line

The addition of a new line of straight centrifugal pumps has just been announced by Marlow Pumps, Ridgewood, N. J., which expands the full Marlow line to 56 basic series of pumps, a line considered by Marlow engineers to be the largest of its kind in the world and one which can meet most industrial pumping requirements.

The new centrifugals are introduced for use primarily on installations with flooded suction and are offered in close- or long-coupled construction, 1- to 4-inch sizes and with capacities from 10 to 1,000 gallons per minute. Called Types SC and SL, the new Marlows are said to provide dependable high efficiency with economy of first cost as well as low operating cost.

Consisting of casing, impeller with shaft sleeve and the driving motor, the unit may be installed and operated in either vertical or horizontal position. Extremely simple in design, the new centrifugal is said by the manufacturers to embody advanced hydraulic principles. Features include an easily renewable sealing ring at the suction inlet and deep-groove oversize ball bearings sealed against dirt and moisture.

See Your FOOTE Sales Agent

—for MultiFoote and Adnun Pavers

BUCHANAN-ROONEY EQUIPMENT CO.
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Jacksonville, Miami and Tampa, Florida

INTERSTATE EQUIPMENT COMPANY
Statesville, North Carolina

NIXON MACHINERY & SUPPLY CO.
Chattanooga, Tennessee

G. C. PHILLIPS TRACTOR COMPANY
Birmingham, Alabama

RICHMOND MACHINERY & EQUIPMENT CO., INC.
Richmond, Virginia

SOUTHERN EQUIPMENT SALES CO.
Columbia, South Carolina

SOUTHERN STATES EQUIPMENT CO.
New Orleans, Louisiana

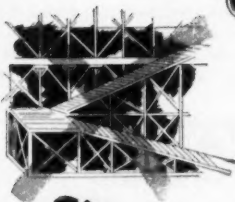
WEST VIRGINIA TRACTOR & EQUIPMENT CO.
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WILSON MACHINERY & SUPPLY CO.
Lexington, Kentucky

Cut these out!



... and save money!

ARE you figuring on a pouring job? You can make your MultiFoote with the HighLift Boom a real source of profit on your pouring jobs this year.

With the MultiFoote and HighLift Boom you have mixer and concrete hoist all in one. Walk into the job. Spot the bucket over the form or pour direct to your concrete buggies. No chuting tower! No crane! No ramps! No staging! Put the mix 23 ft. up and right where you want it! Hours saved in transfer from mixer to handling equipment! Losses and spillage reduced to a minimum! Buggy time saved! Labor saved! Capacity increased because you can have anything from a 27 cu. ft. batch a minute up to a 34 cu. ft. batch every 35 seconds.

Don't figure on a pouring job without learning more about this machine. Ask for a copy of the booklet, "How Would You Do These Jobs?"

THE FOOTE COMPANY, INC.

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MULTIFOOTE

HIGH TRADE MARK LIFT BOOM

A New Star in the Excavating Field

*Another Output Leader in
the Bucyrus-Erie Line—
the Fast, Smooth, Powerful*

51-B

**Convertible 2-YARD
SHOVEL, DRAGLINE,
CRANE and CLAMSHELL**

Here's an entirely new 2-yard excavator — the Bucyrus-Erie 51-B! It features the sturdy yet lightweight construction, fast operating speed, simple "full-feel" controls and proven design that mean sustained high output with outstanding economy of operation. It's versatile, too . . . functions with top efficiency as shovel, dragline, crane or clamshell, and has been thoroughly proved in extensive field tests.

Among the 51-B's many important features are wide use of special alloy steels, selectively hardened for strength and long life and anti-friction bearings to minimize power loss and insure concentricity of rotating parts. Clutches of generous size, requiring no adjustment for weather or temperature variations, provide smooth fast action with high operator efficiency. Twin-rope crowd for shovel operation increases digging stability, speed and output while reducing shocks or vibrations and cutting maintenance costs. Independently operated power boom hoist with power controlled cushioned lowering is standard equipment for precision crane work. These and dozens of other design features make the 51-B a worthy addition to the Bucyrus-Erie line, already world famous for dependable operation and tops for output. Your Bucyrus-Erie distributor has full details — see him today!

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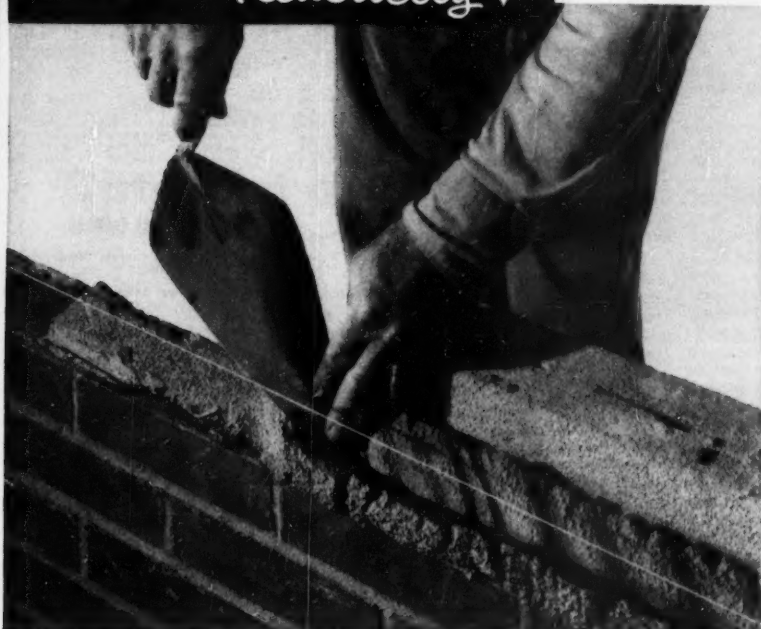


Diesel • Electric

See Your Bucyrus-Erie Distributor for Complete Information on the 51-B

CUMBERLAND GIVES YOU *ALL 10!*

No 1. Plasticity ✓



The 10 basic requirements for high quality masonry cement

1. Plasticity ✓

2. Body
3. Strength
4. Yield
5. Color
6. Adhesion & Bond
7. Negligible shrinkage
8. Water retention
9. Water repellency
10. Non-efflorescing

Mortar made with Cumberland Masonry Cement has the highest possible degree of smooth plasticity (see photo) — the complete *workability* you need for top-grade masonry construction. It stretches, butters, spreads and shoves a head joint with maximum speed and minimum effort — without admixtures of any kind.

With its pleasing light color and its outstanding performance on every kind of job, Cumberland Masonry Cement is the choice of more masons, engineers and architects every year.



Bradley County High School Auditorium, Cleveland, Tennessee — contractor, Grover C. Lee; architect, S. T. Franklin. Another job using Cumberland Masonry Cement exclusively.



Cumberland

PORTLAND CEMENT COMPANY

Chattanooga Bank Building • • Chattanooga 2, Tennessee

Portland — High Early Strength — Air Entraining — Masonry

South's Construction High in Peacetime

(Continued from page 9)

\$374,116,000 value placed on southern engineering projects was an eight per cent decline from the \$410,325,000 of 1948. Only sub-category showing a rise was the \$88,978,000 for government electric projects. Dams and similar work were down twenty-one per cent; sewer and water work, twelve per cent.

Monthly construction values in the South have ranged from the \$184,579,000 low, which occurred in April, to the \$445,116,000 of December. Intermediate totals were: January, \$259,542,000; February, \$193,381,000; March, \$235,101,000; May, \$276,224,000; June, \$278,293,000; July, \$223,744,000; August, \$317,986,000; September, \$318,817,000; October, \$204,672,000, and November, \$267,566,000.

The December total was made up of \$200,160,000 for industrial projects, most of which was the value of the atomic energy plant at Oak Ridge; \$108,812,000 for private building; \$71,377,000 for public building, \$39,346,000 for highways and bridges, and \$25,421,000 for engineering construction. The first three represent increases; the last two, decreases.

The \$108,812,000 for private building in December is up seventeen per cent, when compared with the \$92,361,000 for the previous month. In the total is \$89,986,000 for residential work, \$8,738,000 for office buildings, \$5,977,000 for assembly buildings, including churches, theatres and auditoriums, and \$4,111,000 for commercial buildings, including filling stations and garages.

Public building in December was up six per cent. The \$71,377,000 total embraces \$36,685,000 for government buildings and hospitals and \$34,692,000 for schools. The first-named shows an increase when compared with the November value; the latter, a decrease.

Engineering construction dropped in December. Forty-three per cent lower than in November, the figure involved \$13,441,000 for sewer and water work, \$9,700,000 for dams and other projects and \$2,280,000 for government electrical expansion. In the preceding month the totals were \$14,020,000 for sewer and water work; \$14,810,000 for government electric projects and \$16,076,000 for dams, airports and other similar projects.

Highway and bridge projects in the contract stage totaled \$39,346,000, this comparing with the \$41,000,000 for similar work in November. As in the twelve-month figure, the highway and bridge work in Texas occupied the first position, with Maryland bringing up a good second far ahead of any of the other states in the South.

Busy bridge designers in many parts of the country indicate a continuation of current high levels of such construction this year, according to the American Institute of Steel Construction, which because of present bookings and the future backlog expects structural steel shipments to equipment of exceed 1949 shipments by five to ten per cent.

Hospitals, schools, churches, commer-

cial and office buildings are forecast as accounting for a considerable tonnage of structural steel during 1950, with defense structures in the southeast and other regions responsible for considerable tonnages. A new skyscraper at St. Louis, Mo., is especially mentioned as one of the new steel frame structures.

"An encouraging sign," says N. R. Patterson, Tulsa president of the Institute, "is the resumption of near-capacity production by the steel mills. The fabricated structural steel industry was considerably slowed down by steel mill and coal strikes in 1949, so that we reached a tonnage of only 1,500,000 tons instead of the 2,000,000 tons the nation needed. However, barring work stoppages in 1950, we shall go a long way toward catching up."

One segment of the building materials industry—the clay wall and floor tile manufacturers—expects to benefit from the current shift to a buyers' market, with a larger share of the nation's new construction expenditures, especially due to increased hospital and institutional construction and the raised maximum per room cost of government housing. Clay tile output this year is seen holding around the 1949 level of 102,000,000 square feet, the second highest in history.

The cotton textile industry last month revealed that capital commitments and expenditures have been estimated at slightly under \$350,000,000 in 1949, a figure that is about seventeen per cent under the previously established record. Commitments are understood to cover renovation, modernization and expansion, with the major position going for new textile producing machinery and new buildings. The post-war program is placed above one billion dollars.

A large electrical equipment manufacturer describes the construction industry as one of the firmer areas of American business. The \$18,000,000,000 in new construction in 1949, he said, indicates the need for approximately \$750,000,000 worth of electrical building supplies and equipment, about one-third of which will be used in residential, commercial and other small building units.

Forecasts of the National Association

(Continued on page 52)

ROADS, STREETS, BRIDGES

	December, 1949	Contracts Awarded Twelve Months 1949	Contracts Awarded Twelve Months 1949
	Contracts Awarded	Contracts to be Awarded	
Ala.	\$1,642,000	\$66,438,000	\$6,210,000
Ark.	.....	371,000	7,681,000
D. C.	.....	320,000	4,576,000
Fla.	697,000	44,700,000	17,311,000
Ga.	.....	2,491,000	23,561,000
Ky.	2,514,000	798,000	36,172,000
La.	3,462,000	3,164,000	39,405,000
Md.	8,986,000	41,942,000	83,073,000
Miss.	720,000	2,409,000	13,158,000
Mo.	3,704,000	15,263,000	22,462,000
N. C.	1,851,000	501,000	26,335,000
Okl.	905,000	43,324,000	24,038,000
S. C.	122,000	2,406,000	18,295,000
Tenn.	1,258,000	1,797,000	13,351,000
Tex.	11,153,000	13,332,000	113,464,000
Va.	448,000	1,051,000	23,717,000
W. Va.	1,900,000	472,000	13,704,000
TOTAL	\$39,316,000	\$238,639,000	\$488,463,000

PUBLIC ENGINEERING

(Dams, Drainage, Waterworks, Sewers, etc.)

	December, 1949	Contracts Awarded Twelve Months 1949	Contracts Awarded Twelve Months 1949
	Contracts Awarded	Contracts to be Awarded	
Ala.	\$ 850,000	\$ 37,260,000	\$ 10,136,000
Ark.	383,000	3,289,000	14,574,000
D. C.	237,000	50,000	1,732,000
Fla.	1,369,000	815,000	26,843,000
Ga.	994,000	490,000	13,675,000
Ky.	472,000	16,485,000	13,365,000
La.	2,683,000	8,537,000	45,793,000
Md.	1,985,000	680,000	16,513,000
Miss.	595,000	2,145,000	17,323,000
Mo.	593,000	17,570,000	21,062,000
N. C.	1,063,000	910,000	14,415,000
Okl.	227,000	1,435,000	19,419,000
S. C.	883,000	2,650,000	12,037,000
Tenn.	330,000	24,150,000	24,000,000
Texas	8,428,000	30,118,000	96,900,000
Va.	559,000	320,000	19,444,000
W. Va.	3,770,000	250,000	6,855,000
TOTAL	\$25,421,000	\$147,146,000	\$374,116,000

PUBLIC BUILDING

(City, County, State, Federal; Hospitals; Schools)

	December, 1949	Contracts Awarded Twelve Months 1949	Contracts Awarded Twelve Months 1949
	Contracts Awarded	Contracts to be Awarded	
Ala.	\$ 3,248,000	\$ 26,020,000	\$ 38,922,000
Ark.	340,000	5,421,000	8,114,000
D. C.	336,000	250,000	49,726,000
Fla.	4,074,000	2,867,000	38,752,000
Ga.	1,269,000	7,320,000	26,839,000
Ky.	1,524,000	3,165,000	22,131,000
La.	3,997,000	29,938,000	70,493,000
Md.	8,737,000	65,773,000	99,854,000
Miss.	1,936,000	7,795,000	31,868,000
Mo.	1,891,000	4,782,000	24,440,000
N. C.	20,126,000	14,316,000	73,448,000
Okl.	1,354,000	2,007,000	25,425,000
S. C.	1,513,000	3,599,000	16,049,000
Tenn.	1,159,000	4,600,000	43,879,000
Texas	10,427,000	63,566,000	146,543,000
Va.	3,631,000	19,075,000	11,011,000
W. Va.	5,610,000	3,695,000	10,847,000
TOTAL	\$71,377,000	\$267,226,000	\$748,485,000

INDUSTRIAL

	December, 1949	Contracts Awarded Twelve Months 1949	Contracts Awarded Twelve Months 1949
	Contracts Awarded	Contracts to be Awarded	
Ala.	\$ 1,507,000	\$ 532,000	\$ 8,007,000
Ark.	.....	339,000	36,385,000
D. C.	.....	.....	.....
Fla.	363,000	550,000	13,930,000
Ga.	2,439,000	1,930,000	10,973,000
Ky.	.....	.....	10,150,000
La.	1,025,400	1,050,000	36,389,000
Md.	2,060,000	200,000	20,583,000
Miss.	250,000	600,000	21,339,000
Mo.	1,540,000	1,150,000	7,383,000
N. C.	1,622,000	1,600,000	29,551,000
Okl.	453,000	50,200,000	8,673,000
S. C.	5,683,000	750,000	37,610,000
Tenn.	175,440,000	6,000,000	276,397,000
Texas	6,693,000	6,080,000	116,677,000
Va.	1,080,000	1,100,000	4,731,000
W. Va.	.....	1,586,000	1,530,000
TOTAL	\$200,160,000	\$73,142,000	\$641,444,000

PRIVATE BUILDING

(Assembly, Commercial, Residential, Office)

	December, 1949	Contracts Awarded Twelve Months 1949	Contracts Awarded Twelve Months 1949
	Contracts Awarded	Contracts to be Awarded	
Ala.	\$ 3,431,000	\$ 1,585,000	\$ 26,400,000
Ark.	.....	1,905,000	3,463,000
D. C.	1,000,000	600,000	32,945,000
Fla.	10,076,000	5,985,000	151,916,000
Ga.	5,535,000	9,360,000	45,709,000
Ky.	.....	2,017,000	10,113,000
La.	14,568,000	1,150,000	7,383,000
Md.	14,786,000	5,428,000	120,023,000
Miss.	2,239,000	4,105,000	23,857,000
Mo.	28,291,000	12,846,000	57,043,000
N. C.	4,462,000	3,860,000	32,945,000
Okl.	2,824,000	8,768,000	16,556,000
S. C.	4,187,000	1,610,000	22,092,000
Tenn.	4,237,000	11,830,000	31,138,000
Texas	11,958,000	31,744,000	392,063,000
Va.	513,000	427,000	15,019,000
W. Va.	.....	400,000	518,000
TOTAL	\$108,812,000	\$123,639,000	\$952,522,000

ON THE JOB
Cut Your Building Materials
 with
STONE

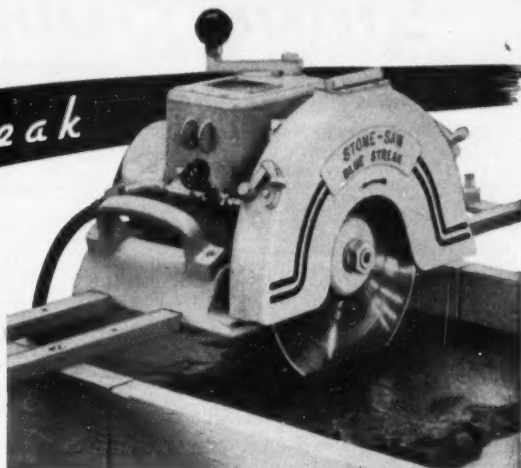
Blue Streak

**MOST POWERFUL
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Using Diamond or Abrasive Wheels

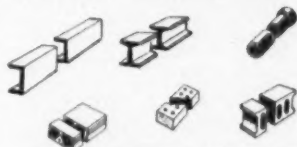
Cuts in one cut to a depth of 5" concrete blocks, brick, structural tile, terrazzo, glass block, glazed products, sewer pipe, drain tile, light structural steel, iron and steel pipe, transite pipe, and corrugated sheeting.



The Stone Blue Streak Can Reduce Your Construction Cost!

TYPICAL CUTTING TIMES:

- 8" Building Brick—12 seconds
- 3" Hard Concrete Flooring—1 ft. per minute
- 4" Steel Channell—30 seconds
- 3" I Beam—40 seconds
- 3" Cast Iron Pipe—20 seconds



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 Allis-Chalmers dealer today.

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BULLDOZERS • GRADE BUILDERS • SNOW PLOWS

Southern Construction Projects

(Continued from page 26)

TENNESSEE

TENNESSEE—East Tennessee Natural Gas Co., Chattanooga, received order from the Federal Power Commission to construct \$12,000,000, 300-mile natural gas main.

TENNESSEE—Bureau of Public Works appropriated \$76,506, federal aid highway work. **TENNESSEE**—East Tennessee Natural Gas Co. builds 18-mile natural gas pipeline, \$875,000.

TENNESSEE—General Services Administration, Washington, D. C., approved post offices at Knoxville, \$540,000; Cleveland, Copperhill, Etowah, Carthage, Hartsville, Gallatin, Smithville, Centerville, Sharon, Tiptonville, Memphis, \$1,890,000; Madison, \$200,000.

BENTON—Polk County Board of Education received low bid from W. E. Hamby, Knoxville, \$52,843, elementary school.

CHATTANOOGA—Signal Mountain Presbyterian Church let contract to Collins & Hobbs, 631 W. 6th St., Sunday school, \$64,148.

CLARKSVILLE—Housing Authority has approval, 200-unit low-cost housing project, \$350,000.

CLEVELAND—First Baptist Church let contract to W. E. Hamby, Athens, Sunday school, \$78,900.

GLEASON—Nantz & Co. plans rebuilding veneer plant building and sheds, \$125,000.

HUMBOLDT—L. Houston Herndon plans store, \$40,000.

JOHNSON CITY—East Tennessee State College let contract to Cassel Brothers, Kingsport, \$610,000, physical educational building.

KNOXVILLE—Public Buildings Administration seeking site in North Knoxville, construction of post office building, \$500,000.

KNOXVILLE—Southern Railway System, Washington, D. C., announced John Sevier Yard to be revised and enlarged, \$3,000,000.

MEMPHIS—Bellevue Baptist Church let contracts to Foster & Creighton Co., Nashville, \$775,900, for auditorium, and to Hughes Heating Co., 672 Madison St., air-conditioning, heating and ventilating, \$143,473.

MEMPHIS—Hall County Electric Cooperative has REA loan of \$158,000, system improvements, and 56 miles of line.

NASHVILLE—Richland Golf Club plan club house, \$275,000.

NASHVILLE—State Highway Department received low bids for projects in following counties:

Monroe—Grad., drain, and surf. with bitum. materials section of Sec. Hwy. 2430, 11 mi.; A. B. Long, Harriman, \$121,086.

Bledsoe—Grad., drain, and surf. with crushed stone sec. Hwy. 4263, 7 mi.; C. R. Pickle & Sons, Shelbyville, \$72,980.

Franklin—Grad., drain, and surf. with bitum. materials Sec. Hwy. 4293, 7 mi.; Southern States Paving Co., \$53,676.

Anderson—Grad., drain, and surf. with bitum. materials Sec. Hwy. 2395, 9 mi.; A. B. Long, Harriman, \$99,814.

Sevier—Grad., drain, including 3 bridges, Hwy. 73, 5 mi.; Nello L. Teer, Durham, N. C., \$380,394.

NASHVILLE—State Highway Department received low bid for project in following county:

Bledsoe—16 bridges on State Hwy. 28; H. B. Garrett, Ashland, Ala., \$187,493.

NASHVILLE—State Highway Department received low bid from Wesco Paving Co., Chattanooga, \$277,768, widening 4 lanes and resurfacing Ringgold Rd.

NASHVILLE—Presidents Court Annex Subdivision, Wilson build 66 duplexes at White Ridge Rd., \$531,000.

NASHVILLE—State, Dir. of Parks plans 40-room hotel and restaurant building, boat-house and parking facilities, and improvements to roads in Montgomery Bell Park, \$120,000.

NASHVILLE—Cain-Sloan Co. plans department store, \$5,000,000.

NASHVILLE—John W. Murphree and Sam F. Coleman plan 130 home subdivision, \$2,000,000.

OAK RIDGE—U. S. Atomic Energy Commission let contract to Maxon Construction Co., Inc., Dayton, Ohio, for fourth gaseous diffusion unit, K-31, production of Uranium-235, \$162,000,000.

OAK RIDGE—U. S. Atomic Energy Commission received low bid from Henry A. Ivey, Inc., 589 Plum St., N.W., Atlanta, Ga., \$437,715, instrument laboratory building No. 3.

TULLAHOMA—Group, headed by Dr. Jack T. Farrar, Mayor, let contract to Verhey Construction Co., 207 N. Holly St., Chattanooga, five-story, 150-room hotel, \$1,000,000.

WHITEHAVEN—Board of Education received low bid from C. E. McCrory Construc-

tion Co., 2948 Summer Ave., Memphis, \$199,984, gymnasium for Whitehaven School. **WHITEHAVEN**—Whitehaven Utility District plans water system, filter plant, 2,500-foot deep wells, \$550,000.

TEXAS

TEXAS—Bureau of Public Roads appropriated \$73,555, federal aid highway work.

TEXAS—General Services Administration, Washington, D. C., approved post offices at New Boston, Dalingerfield, San Augustine, Orange, \$610,000; McKinney, \$285,000; Garland, Grand Prairie, \$200,000; Waxahatchie, \$380,000; Galveston, \$356,000; Austin, \$6,200,000; Carthage, Killean, Denton, \$225,000; Refugio, McCamey, Levelland, \$350,000; San Saba, Madisonville, Dublin, \$200,000.

TEXAS—State Highway Commission, Austin, received low bids for projects in following counties:

Mason—Hwy. US 87, 7.332 mi.; T. C. Cagle, 607 Travis Bldg., San Antonio, and Dean Skinner, P. O. Box 4057, Austin, \$222,940.

Deaf Smith—Hwy. FM 1058, 36.357 mi.; J. R. Fanning, 1712-13th St., Lubbock, \$419,614.

Brewer—Hwy. FM 1120, 7.518 mi.; Strain & Brown, Inc., P. O. Box 1057, San Angelo, \$57,843.

Hidalgo—Hwy. FM 681 & FM 1017, 12.846 mi.; H. B. Zachry Co., P. O. Box 2570, San Antonio, \$72,492.

Correll—Hwy. FM 929, 9.919 mi.; Wesley Hall, Rt. 1, Box 260, Brownwood, \$75,051.

Bosque—Hwy. FM 4 & FM 215, 2,099 mi.; J. R. Fanning, 1712-13th St., Lubbock, \$166,651.

Cooke—Hwy. FM 373, 5.217 mi.; Ernest Lovd, P. O. Box 1120, Fort Worth, \$47,947.

San Jacinto—Hwy. FM 946, 5.314 mi.; H. R. Henderson & Co., P. O. Drawer 313, Marshall, \$48,462.

Hudspeth—Hwy. FM 1111, 23.677 mi.; O. D. Burleson, P. O. Box 817, Alpine, \$102,199.

Dallas—Hwy. US 75, 1.438 mi.; T. C. Cagle, 607 Travis Bldg., San Antonio and Dean Skinner, P. O. Box 4057, Austin, \$393,565.

Jack and Palo Pinto—Hwy. FM 206, 0.349 mi.; John F. Buckner & Sons, P. O. Box 76, Cleburne, \$38,207.

Beagan and Crockett—Hwy. FM 33, 20.220 mi.; M. E. Ruby, San Marcos and W. L. Barnes, Rt. 4, Box 438, Austin, \$124,888.

Presidio—Hwy. FM 1112, 2.879 mi.; Hugh McMillan, P. O. Box 1227, El Paso, \$36,921.

Fanipa—Hwy. FM 606, 0.492 mi.; Thomas & Ratliff, Rogers, \$38,892.

Terry—Hwy. FM 402, 9.261 mi.; Ernest Lovd, P. O. Box 1120, Fort Worth, \$52,644.

Bowie—Hwy. US 59, 1.238 mi.; The Austin Road Co., P. O. Box 1590, Dallas, \$70,614.

Borden—Hwy. FM 669, 2.480 mi.; Ernest Lovd, P. O. Box 1120, Fort Worth, \$47,947.

Hamilton—Hwy. FM 620, 0.620 mi.; Wesley Hall, Rt. 1, Box 260, Brownwood, \$75,934.

Gonzales—Hwy. FM 794, 11.592 mi.; T. C. Cagle, 607 Travis Bldg., San Antonio and Dean Skinner, P. O. Box 4057, Austin, \$97,929.

Bee and Live Oak—Hwy. FM 882 and FM 99, 18.071 mi.; Thomas & Ratliff, Rogers, \$119,951.

Falls and Limestone—Hwy. FM 413, 11.019 mi.; H. L. Butler & Sons, P. O. Box 7112, Dallas, \$119,253.

Tyler—Hwy. FM 1014 & FM 1013, 14.439 mi.; Campbell & Kay, P. O. Box 836, Tyler, \$194,576.

Bohmer—Proj. V-797-2-1 & R-798-2-1, Hwy. FM 1288, 10.527 mi.; Bell, Braden, Barker & Glavin, Inc., Herring Hotel Bldg., Amarillo, \$93,122.

Frio—Proj. F-273(11) & F-273(12) Hwy. US 81, 8.056 mi.; McKown & Sons, P. O. Box 785, Austin, \$208,345.

Jefferson—Proj. V-932-2-2, Hwy. FM 365, 5.362 mi.; Harrison Engineering & Construction Corp., P. O. Box 250, Texas City, \$219,000.

Lavaca—Proj. V-515-4-2, Hwy. FM 530, 5.141 mi.; Heldenfels Brothers, P. O. Box 1917, Corpus Christi, \$38,936.

Uvalde—Proj. V-1108-2-1, Hwy. FM 1049, 9.852 mi.; Ernest Lovd, P. O. Box 1120, Fort Worth, \$59,027.

McLennan—Proj. F-605(12), Hwy. US 84, 0.172 mi.; Luther A. Turner & Son, P. O. Box 1125, Austin, \$380,092.

TEXAS—State Highway Commission, Austin, received low bids for projects in following counties:

Harris—Cont. No. 502-1-10, Fed. Proj. No. U-1081(3), 0.092 mi. grad. channel improvement, etc.; Farnsworth & Chambers Co., Inc., P. O. Box 74, Houston, \$294,916.

Lamar—Proj. No. C-221-7-4, Hwy. L 167, 0.771 mi.; Ernest Lovd, P. O. Box 1120, Fort Worth, \$44,861.

Ellis—Proj. F-592(13), Hwy. 67, 3.971 mi.; T. C. Cagle, 607 Travis Bldg., San Antonio, \$73,220.

Terrill and Pecos—Proj. No. S-1058(5) & (4), Hwy. US 285, 11.240 mi.; Dean Word Co., P. O. Box 351, New Braunfels, \$248,867.

Angelina—Proj. No. S-1357(1), Hwy. FM 842, 4.490 mi.; T. R. Vardeman, Sr., P. O. Box 825, Nacogdoches, \$42,535.

Marion—Proj. No. F-365(4), Hwy. St. 49, 1.229 mi.; Thomas & Ratliff, Rogers, \$192,929.

Haskell—Proj. S-1473(1), Hwy. FM 839, 13.341 mi.; Dew Construction Co., Inc., P. O. Box 741, Tyler, \$85,447.

Williamson—Proj. No. S-1395 & S-1396(1), Hwy. FM 970 & 972, 13.177 mi.; Holland Page, P. O. Box 1181, Austin, \$94,790.

Wise—Proj. No. S-1349(1), Hwy. FM 920, 4.894 mi.; Uvalde Construction Co., P. O. Box 3027, Dallas, \$52,512.

Trinity—Proj. R-931-3-1, Hwy. FM 1280, 7.477 mi.; Menefee Brothers, Center, \$101,324.

Andrews, Martin and Gaines—Proj. V-354-5-1, R-354-9-1 & R-354-8-1, Hwy. FM 703, 22.670 mi.; Ernest Loyd, P. O. Box 1120, Fort Worth, \$167,007.

Kendall—Proj. S-1032(2), Hwy. FM 474, 9.919 mi.; M. B. Kull & Co. and Killian Keller Co., P. O. Box 1981, San Antonio, \$83,303.

La Salle—Proj. S-548(3), Hwy. FM 468, 6.762 mi.; Schlope Brothers, 6633 W. Commerce St., San Antonio, \$42,731.

Austin—Proj. S-1223(1), Hwy. FM 1088, 9.900 mi.; J. W. Perry, 501 Insurance Bldg., San Antonio, \$125,855.

Chambers—Proj. S-1403(1), Hwy. 73-T, 7.552 mi.; Tretti & Thompson, Inc., P. O. Box 70, Beaumont, \$279,557.

TEXAS—State Highway Commission, Austin, received low bids for projects in following counties:

Panola—Proj. No. S-1425(1), Hwy. FM 999, 5.158 mi.; Feely & Williams, 1603 E. Ervin St., Tyler, \$42,541.

Hale and Swisher—Proj. S-1044(2) & S-1275(1) & S-1276(1) & S-1050(3), Hwy. FM 594, 1071, 1070 & 145, 20.611 mi.; Bell, Braden, Barker & Glavin, Inc., Herring Hotel Bldg., Amarillo, \$122,452.

Matagorda—Proj. No. S-1294(1) & R-1321-1-2, Hwy. FM 1095, 15.520 mi.; South Texas Construction Co., P. O. Box 1673, San Benito, \$144,253.

Montague—Hwy. US 82, 1.198 mi.; Benson & McCann, 1509 22nd St., Wichita Falls, \$37,285.

Harris—Proj. U-32(12) & U-679(4), Hwy. US 75, 1.350 mi.; grad., storm sewers, bridges, etc.; Farnsworth & Chambers Co., Inc., P. O. Box 74, Houston, \$1,339,943.

Limestone—Proj. S-1250(1), Hwy. FM 937, 14.189 mi.; H. L. Butler & Son, P. O. Box 7112, Dallas, \$152,423.

Monterey—Proj. S-1277(1), Hwy. FM 1087, 14.546 mi.; H. R. Henderson, P. O. Drawer 313, Marshall, \$93,700.

Martin—Proj. S-309(2), Hwy. St. 349, 16.743 mi.; Collins Construction Co., P. O. Box 1192, Austin, \$153,742.

Goiland—Proj. S-1369(1), Hwy. FM 884, 5.815 mi.; Thomas & Ratliff, Rogers, \$38,370.

Wilson—Proj. S-363(2) & R-1122-4-1, Hwy. FM 541 & 1344, 13.641 mi.; E. E. Hood & Sons, 511 Barrett Ave., San Antonio, \$68,111.

Nacogdoches—Proj. No. S-1411(1) & S-1488(1), Hwy. FM 941 & 1087, 12.444 mi.; T. R. Vardeman, Sr., P. O. Box 825, Nacogdoches, \$111,147.

ABILENE—St. Paul Methodist Church, Plans educational bldg., \$250,000.

ABILENE—First Baptist Church, 232 Hickory St., plans church sanctuary, \$500,000.

ALDINE—Aldine Independent School District plans gymnasium and elementary school, \$150,000.

ALDINE—Aldine Independent School District plans gymnasium, \$130,000.

ALPINE—Department of Commissioners, Bureau of Public Roads, Denver, Colorado, received low bid from T. C. Cagle, 607 W. Commerce St., San Antonio, \$327,548, North entrance, Rio Grande and Santa Elena Project, I-3(Port), A(Port) and 3-A, grad. and surf. Big Bend National Park.

ANAHUAC—City plans waterworks and gas system, \$275,000.

AUSTIN—Texas Highway Department, let contract to Grimes Electric Co., 2626 Guadalupe St., \$79,225 on electrical work, and to Gordon Fulcher, 1010 W. 3rd St., Austin, \$151,877 on air-conditioning, State Highway Building.

AUSTIN—State, plans Public Safety Department, Headquarters Building, Dallas Highway, \$1,000,000.

(Continued on page 46)

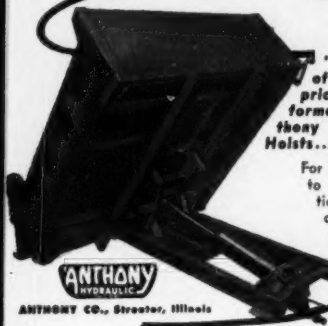
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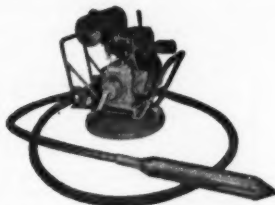
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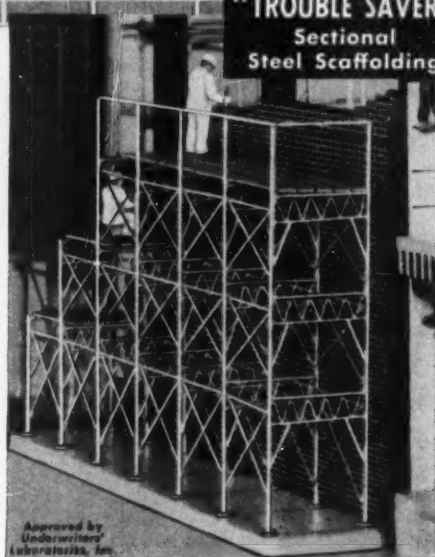
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Wheel-Mounted "Paymaster"

- Convertible Crane, Shovel, Dragline or Pull Shovel
- Powered by one engine
- One Operator Control— including travel
- Crane Capacity 20 tons (with outriggers)
- Shovel Capacity 1/2 or 1 yard
- Travel Speed (maximum) 8.24 M.P.H.

TYPE 34-T

Truck-Mounted "Paymaster"

- Convertible Crane, Shovel, Dragline or Pull Shovel
- Separate engine for travel
- Requires two operators
- Crane Capacity 20 tons (with outriggers)
- Shovel Capacity 1/2 or 1 yard
- Travel Speed (maximum) 31 M.P.H.

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- Powered by one engine
- One Operator Control, including travel
- Crane Capacity . . . 35 tons (with outriggers)
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Crawler-Mounted	Rubber-Mounted
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Clarksburg, W. Va., West Virginia Mine Supply Co., Box 872
El Paso, Tex., Contractors' Equipment & Supply Co., 1420 Myrtle St.
Fort Smith, Ark., R. A. Young & Son, Inc., 301 South 10th St.
Houston 1, Tex., McCall Tractor & Equipment Co., 3714 Navigation Blvd.
Kansas City 8, Mo., Buchanan Co., 1710 Grand Ave.
Knoxville 1, Tenn., Martin Machinery & Supply Co., 4100 Chapman Highway
Louisville 8, Ky., Emmett C. Watson Co., 310 East Brandeis St.
Nashville, Tenn., Martin Machinery & Supply Co., 830 8th Ave. South
North Little Rock, Ark., R. A. Young & Son, Inc., 900 West Second Street
Palatka, Fla., McLean Machinery Co., 220 North Seventh St.
Roanoke, Va., J. W. Burress, 1701 Shenandoah Ave., N. W.
San Antonio 6, Tex., Acme Iron Works, Culebra Ave. at Expressway N. W.
Statesville, N. C., Interstate Equipment Co., West Bldg.
St. Louis 10, Mo., E. F. Marsh Co., 4030 Chouteau Ave.
Tulsa 8, Okla., Tulsa Equipment Co., 418 E. 2nd St.
Tyler, Tex., D. M. McClure Equipment Co., Inc., 226 No. Fenton St.
Waco, Tex., Richards Equipment Co., 910 Franklin Street
West Columbia, S. C., State Machinery & Supply Co., 1005 Meeting St.

Lima Shovel and Crane Division

LIMA, OHIO

OTHER DIVISIONS: Lima Locomotive Works Division, Miles Tool Works Co., Hoover, Owens, Rentschler Co.



TEXAS PROJECTS

(Continued from page 44)

AUSTIN—L. L. McCandless & W. R. Hooper will build tourist court and hotel building, \$400,000.

BANQUETTE—Banquette Independent School District, plans gymnasium and cafeteria, \$192,000 bond issue voted.

BARTLETT—City, plans additional water and sewer lines and new sewage treatment plant, \$240,000 bond issue voted.

BAYTOWN—Baytown Independent School District plans school facilities, \$150,000.

BEAUMONT—Beaumont Independent School District, let contract to A. L. Hays & Sons, 421-46 St., Port Arthur, \$161,673, James Bowie Junior High School.

BEAUMONT—State Highway Commission, Austin, received low bid from Jahneke Service, Inc., New Orleans, \$847,235, O. Box 3034, approaches to new Hwy. 90 Neches River bridge and embankment into Orange County.

BEAUMONT—County Commissioners, let contract to Harrison Engineering & Construction Corp., \$141,428, for Nederland-Port Neches Road and Terminal Road.

BEAUMONT—Bethlehem Steel Co., placed contracts for machinery and equipment for establishment of production line, cylindrical containers and pressure vessels of all kinds; Represents investment between \$3,000,000 and \$4,000,000.

BELLAIRE—R. E. Boyker and Jack G. Vest build Post Oak Terrace subdivision, \$1,672,000.

BELTON—Bell County, let contract to Harold O. Elitz Construction Co., Box 3034, Austin, \$176,008, alterations and remodeling of present County Courthouse.

BENBROOK—City of Engineers, Galveston, let contract to West-Burnett Construction Co., Denison, \$64,354, reservoir clearing, Part 1, Benbrook Dam and Reservoir, Clear Fork, Trinity River.

BIG SPRING—Howard County, plans Junior college, \$150,000 bond issue voted.

BISHOP—Bishop Independent School District let contract to Davis Construction Co., 1804 Morgan St., Corpus Christi, \$121,325, high school.

BONHAM—Bonham Independent School District plans school building program; \$460,000 bond issue voted.

BORGER—Von Freilick, Inc., P. O. Box 209, San Angelo, was awarded contract, \$612,630, bond bid.

BRAZORIA AND MATAGORDA COUNTIES—Corps of Engineers, Galveston, let contract to Hendry Corp., P. O. Box 25, Harvey, La., \$290,542, dredging Main Channel, Gulf Intracoastal Waterway.

BRECKENRIDGE—Stephens County, let contract to Balfanz Construction Co., P. O. Box 805, Abilene, \$120,400, one-story County Hospital.

BURNET—City, plans water and sewer system improvements; \$250,000 bond issue voted.

CANYON—West Texas State Teacher's College, plans gymnasium, \$375,000.

CISCO—City of Engineers, Independent School District plans alterations and additions to school, \$180,000.

CISCO—Housing Authority filed application for approval of 250-low rent housing units, \$1,350,000.

COLLEGE STATION—Board of Directors of Texas A & M College, approved \$9,000,000 building program for college system.

COMMERCE—East Texas State Teacher's College let contract to Farnsworth and Chambers Co., Inc., P. O. Box 74, Houston, \$727,107, stadium and field house.

CORPUS CHRISTI—Nueces County let contract to Bauer-Smith Dredging Co., Port Lavaca, \$138,896, Padre Park Project No. 3.

CORPUS CHRISTI—Spohn Hospital, plans addition, \$60,000.

CORPUS CHRISTI—City, may vote on \$5,850,000 bond issue for civic improvements.

DALLAS—Corps of Engineers, Galveston, received low bid from West-Burnett Construction Co., Denison, \$144,052, clearing portion of Lavon reservoir.

DALLAS—Strayhorn-Lacy Buick Co., 606 N. Edgewood St., let contract to Jansen Construction Co., 1203 Powhatan St., \$116,222, two buildings connected by covered canopy.

DALLAS—Dallas City-County Boys' Industrial School plans five-wing building, \$175,000.

DALLAS—Dallas Independent School District, plans school building, exceptional children, \$350,000.

DALLAS—Ursuline Academy, let contract to T. C. Bateson Construction Co., Irwin-Keasler Bldg., Dallas, \$654,795, school and monastery.

DENISON—Madonna Catholic Hospital, plans addition, \$100,000.

DUBLIN—Housing Authority has filed application for approval of 200 low rent housing units, \$1,480,000.

EDOUCH—Edouch-Elsa School District No. 10, plans elementary school; \$200,000 bond issue voted.

EL PASO—Board of Directors let contract to Robert E. McKee, 1918 Texas St., \$2,227,300, 272-bed Providence Memorial Hospital.

ENNIS—Ennis Independent School District, plans school building program, \$160,000.

ENNIS—City plans sewage treatment plant, \$140,000.

FORT WORTH—Cleaves Rhea, Fort Worth National Bank Bldg., plans office bldg., \$100,000.

FORT WORTH—City plans sewage disposal plant, \$800,000.

FORT WORTH—Beard & Stone Electric Co., let contract to Cain & Cain, Mapestic Bldg., \$135,000, generator service building.

FORT WORTH—Ridgeway Manors, Inc., plans 240 unit housing project, Ridgela Addition, \$2,000,000.

FREESPORT—Dow Chemical Co., plans super-structure, ammonia plant, \$5,000,000.

GALVESTON—University of Texas Medical Branch plans student union building, \$250,000.

GARLAND—Garland Independent School District plans junior high school, \$275,000.

GIDDINGS—Giddings Independent School District plans school improvements, white and negro high school, \$225,000.

GIDDINGS—Giddings Independent School District plans school, \$240,000.

GATESVILLE—Gatesville Independent School District received low bid from Warner Construction Co., Holcombe-Blanton Bldg., San Angelo, \$24,700, elementary school.

GILMER—Gilmer Independent School District let contract to Barry Glass, high school, \$300,000.

HASKELL—Haskell Independent School District plans elementary school and gymnasium, \$250,000.

HENDERSON—Henderson Independent School District, plans additions to school, \$800,000.

HOUSTON—City let contract to Farnsworth and Chambers, Co., Inc., P. O. Box 74, \$663,165, sanitary sewers, Lockwood Drive.

HOUSTON—Palmer & Baker, Eng., announced system of access roads to Washburn Tunnel under Ship Channel between Pasadena and Galena Park, \$1,800,000.

HOUSTON—Park Place Baptist Church, plans church, \$750,000.

HOUSTON—Memorial Hospital, plans multi-million dollar expansion program for hospital, including \$2,000,000 175-bed addition to present hospital.

HOUSTON—Harris County plans ready for bids about March 1 for Courthouse, remodeling of present one and equipment, \$8,000,000.

HOUSTON—State Highway Department, received low bid from Farnsworth & Chambers, Inc., P. O. Box 74, \$1,339,943, Freeway Express project in Harris County.

HOUSTON—City plans relocation of .5 mi. Bayou, \$450,000.

HOUSTON—L. R. Webb Construction Co., has construction contract, 14 residences, at Hulsache Acres, \$350,000.

HOUSTON—Harris County Navigation District, Port Commission, plans wharf, 600 ft. long and 125 ft. wide, \$1,000,000.

HOUSTON—Port of Houston plans open wharf, \$1,000,000.

HOUSTON—Houston Independent School District let contract to Van Cleave Construction Co., 5612 Telephone Road, \$152,141, elementary school, Telephone Road.

HOUSTON—Elks Club, plan multi-story lodge at San Jacinto, Anita and Tuam Sts., \$30,000.

HOUSTON—United Gas Pipe Line Co., let contract to Brown & Root, Inc., 34 miles of gathering lines in thirteen gas and oil fields in DeWitt and Goliad Counties, \$1,000,000.

HOUSTON—Southern States Investment Co., let contract to Mecca Engineering Co., 2628 Harold St., \$170,000, office bldg., at Main St. & Preston Ave.

HOUSTON—General Services Administration, Washington, D. C., approved construction of a post office and courthouse, \$12,000,000.

HOUSTON—Methodist Hospital Board let contract to Thomas Bate & Sons, 1107 Girard St., \$3,236,000, nine-story hospital, Texas Medical Center.

HOUSTON—City let contract to Viking Construction Co., 2233 Commerce Bldg., \$127,455, storm sewers, Hays Street.

HOUSTON—City plans pumping station, \$130,000.

HOUSTON—Rice Institute, let contract to Brown and Root, Inc., P. O. Box 3, stadium, \$2,500,000.

HOUSTON—City let contract to Farnsworth and Chambers, Inc., P. O. Box 74, \$286,656, storm sewers in Main, Richmond & Dunlavy Sts.

HOUSTON—Houston Independent School District let contract to Linbeck Construction Co., P. O. Box 13007, \$661,790, Charles Deady High School.

HOUSTON—Houston Independent School District let contract to Schneider Construction Co., 3004 W. Dallas, \$153,266, Kincaid

(Continued on page 48)

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TEXAS PROJECTS (Continued from page 47)

School, gymnasium.

HOUSTON—Houston Independent School District, received low bid from Marquette Construction Co., 7907 Hartford St., \$334,856, 16-classroom addition to Garden Villas.

HOUSTON—Baptist Student Union, plans student union building, \$100,000.

HOUSTON—O. J. Weingarten, Inc., let contract to Manhattan Construction Co., 2828 Penn Ave., \$203,600, remodeling store at 20th & Yale Sts., \$750,000.

HOUSTON—Stauffer Chemical Co., New York City, and M & M Bldg., Houston, plans chemical plant on 10-acre site, Hempstead Road at 12th St., \$1,500,000.

HOUSTON—Claude Ezell & Associates, 3601 Colgate St., Dallas, let contract to Tom Forner & Son Contracting Co., 2009½ Jackson St., Dallas, 5 drive-in theatres, \$300,000.

IRVING PARK—City, plans water and sewer improvements, \$300,000.

KARNES CITY—Karnes Electric Cooperative, Inc., has REA loan of \$212,000 for 85 miles rural electric lines, headquarters facilities and installing 2-way communication facilities.

KATY—Katy Independent School District plans school building and cafeteria; \$450,000 bond issue voted.

KINGSVILLE—Texas College of Arts & Industries, plans combination library-administration building, \$600,000.

LAGRANGE—Fayette Electric Cooperative has REA loan of \$115,000, improvements include 5 miles new line and 36 miles of line.

LA MARQUE—LaMarque Independent School District, plans school facilities, \$350,000.

LAMESA—First Baptist Church received low bid from Dolph Construction Co., 3091 Elm St., Dallas, \$165,950, church addition.

LEVELAND—Leveland Independent School District, approved issuance of \$700,000 bond issue, new elementary school.

LITTLEFIELD—Littlefield Independent School District, plans high school; \$500,000 bond issue voted.

LONGVIEW—First Baptist Church, let contract to J. A. Sharrock, Marshall, \$547,000, one-story auditorium and chapel.

LIBBOCK—Friendship Independent School District, let contract to John T. Glover & Son, \$113,024, elementary school.

LIBBOCK—City approved issuance of \$6,000,000 bond issue, municipal improvements, 4 years expansion program; \$3,280,000 bond issue sufficient if city limits are not extended.

LIBBOCK—City plans improvements to Municipal Airport, CAA allotted funds of \$100,000.

LIBBOCK—Hilton Hotels Corp., plans hotel, \$2,500,000.

LIBBOCK—First Presbyterian Church, plan church, \$200,000.

LIBBOCK—St. John's Methodist Church, plans church, \$600,000.

LIBBOCK—City plans \$6,000,000 bond issue to finance 4-year expansion program; \$3,595,000, water department; \$1,665,000, sewers; \$350,000, fire department; \$500,000, storm sewers; \$525,000, highway disposal system; \$300,000, paving; \$100,000, swimming pool; \$3,280,000 sufficient if city limits are not extended.

MART—City plans water and sewer improvements, \$150,000.

MASON—Mason Independent School District, plans school; \$250,000 bond issue voted.

MASON—City let contract to Clause Brothers, Kerrville, \$246,686, water and sanitary sewer improvements.

MCALEEN—Suttle Construction Co. will build residential development, \$350,000.

MCALEEN—Housing Authority plans 150 low-cost housing units, \$1,125,000.

MENARD—Menard Independent School District plans school, \$325,000.

MERCEDES—Mercedes Independent School District, approved issuance of \$100,000 bond issue to finance improvements and expand facilities of two elementary schools.

MUNDAY—First Methodist Church received low bid from E. A. Hooper, 856 Janet St., Abilene, \$101,000, church.

NEDELAND—Nederland Independent School District, plans school building program, \$1,000,000.

NEW BRAUNFELS—New Braunfels Independent School District, has approved \$550,000 bond issue, school expansion program.

ODESSA—City approved issuance of \$135,000 bond issue, water works improvements.

ODESSA—City approved issuance of \$275,000 bond issue, storm sewers.

ODESSA—City plans storm sewers, \$175,000.

OLTON—Olton Independent School District, let contract to Ray Glavin Construction Co., 2724 Texas Avenue, Lubbock, \$122,424, elementary school.

ORANGE—Consolidated Western Steel Corp., announced decision to construct \$5,000,000 large-diameter pipe mill planned, Houston, at Orange instead.

ORANGE—Edgar Odum and Tom Landrum, plan office and store, \$150,000.

PALKESTIN—Anderson County, plans 85-bed general hospital, \$800,000.

PAMPA—First Methodist Church let contract to Von Frelick Construction Co., P. O. Box 209, San Angelo, \$235,000, educational building.

PASADENA—Pasadena Independent School District plans school facilities, \$760,000.

PASADENA—City plans storm sewers and paving, \$200,000.

PASADENA—City Council, let contract to Holland Page, Inc., Baytown, \$306,358, for paving Main and Harris streets.

PECOS CITY—City let contract to Enix Construction Co., \$373,224 for water supply line and well collector lines.

PLAINVIEW—Plainview Independent School District plans high school, \$900,000.

PLEASANT GROVE—Pleasant Grove Independent School District plans elementary school, \$200,000.

PORT NECHES—Port Neches Independent School District plans elementary school, \$200,000.

PORT O'CONNOR—Corps of Engineers, Galveston, let contract to Baass Brothers, Goliad Hwy., Victoria, \$2,500,000, repairs to Northwest Jetty, Gulf Intracoastal Waterway.

PRAIRIE VIEW—A & M College selected Norton and Mayfield, P. O. Box 1169, Bryan, Archs., plant and animal building, \$300,000.

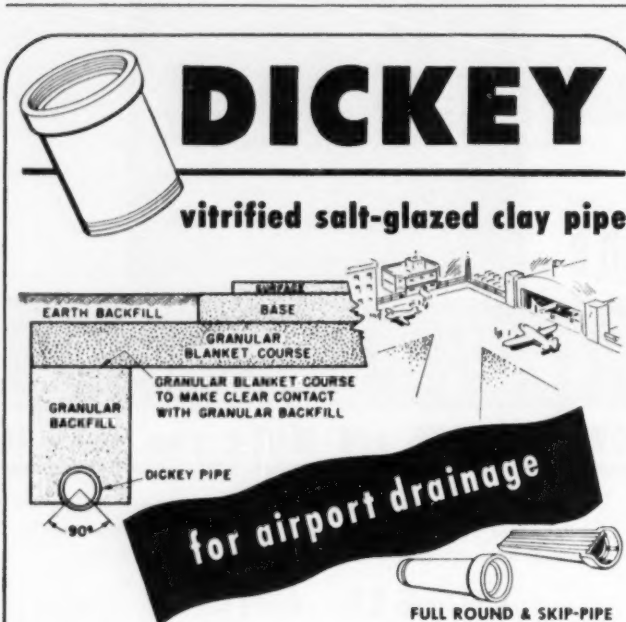
PRAIRIE VIEW—A & M College let contract to Vivrett and Vivrett, Southland Life Bldg. Annex., Dallas, \$287,393, girls' dormitory.

RANKIN—Morris S. Ware, 1401 N. Whitaker, Midland, will build housing project, \$264,000.

SAN ANTONIO—City received low bid from H. B. Zachry Co., P. O. Box 2570, \$1,225,570, sewage plant improvements, section 111.

SAN ANTONIO—City received low bid

(Continued on page 50)



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TEXAS PROJECTS

(Continued from page 48)

from Stevens Co., 924 Dallas St., \$299,061, sewage plant improvements, Section II.

SAN ANTONIO—San Antonio Independent School District plans Thomas A. Edison high school, \$200,000.

SAN ANTONIO—San Antonio Independent School District, Matagorda & Lavaca Sts., plans building improvements at Thomas A. Edison high school, \$200,000.

SAN ANTONIO—City approved \$3,850,000 bond issue, completion of San Antonio Expressway.

SAN ANTONIO—San Antonio College let contract to Joe E. Jorja, 219 Avenue A, \$458,285, library-administration building.

SAN SABA—San Saba Independent School District plans school, \$120,000.

SAN ANTONIO—San Antonio Independent School District let contract to J. C. Worrester, P. O. Box 2058, \$168,658, Sidney Lanier School, gymnasium.

SCHULENBERG—City Planning Committee plans 15-bed Civil Hospital, \$200,000.

STERLING CITY—Sterling County plans one-story hospital, \$150,000.

STEPHENVILLE—A&M College of Texas, College Station, let contract to A. W. Brunson, 319 McIlhenny St., \$112,397, science wing at John Tarleton State College.

SWEETWATER—M. C. Alston will build 34-unit housing project 14th St., \$200,000.

TAHOKA—City received low bid from M&N Construction Co., P. O. Box 641, Hobbs, New Mexico, cement pipe, \$116,055; H. B. Jordan & Co., Plainview, cast iron pipe, \$126,284, water mains and sewer mains.

TEMPLE—Temple Independent School District plans junior high school, \$650,000.

TYLER—City approved \$200,000 bond issue, street improvements on Frankston and Poplar-Beckham Sts.

TYLER—City approved \$500,000 bond issue, waterworks system improvements.

TYLER—City approved \$500,000 bond issue, sewerage system improvements.

WACO—First Presbyterian Church received low bid from Smith Building Co., \$106,440, educational building.

WACO—City Council held first reading on proposed ordinance to appropriate \$401,873, Palafax wharf.

WACO—City received low bid from Moore Construction Co., P. O. Box 340, Austin, \$142,717, for airport terminal building and repairs to maintenance building No. 225, Waco Municipal Airport.

WAXAHACHIE—Housing Authority has approval, 104-unit low-cost housing project, \$769,000.

WICHITA FALLS—Hardin College let contract to T. C. Bateson Construction Co., 618 Irwin-Kessler Bldg., Dallas, \$374,780, student union building.

WICHITA FALLS—City approved issuance of \$200,000 bond issue for parks, and \$100,000 bond issue, Fire Department.

WICHITA FALLS—City approved issuance of \$1,250,000 bond issue, water works.

WICHITA FALLS—City approved issuance of \$800,000 bond issue, streets.

WICHITA FALLS—City approved issuance of \$800,000 bond issue, sewers.

WORTHAM—Housing Authority applied for authority, 80-unit low-cost housing project, \$582,000.

YULETA—Yuleta Independent School District will soon call election to vote on \$1,000,000 bond issue, school building program.

VIRGINIA

VIRGINIA—Bureau of Public Roads apportioned \$150,834 for federal aid highway work.

VIRGINIA—General Services Administration, Washington, D. C., approved post offices at Hampton, \$390,000; Norfolk, \$790,000; Richmond, \$340,000; Lawrenceville, Vinton, Waynesboro, \$278,000; Falls Church, \$330,000; Louisa, Grundy, \$200,000.

ACCOMACK COUNTY—National Advisory Committee on Aeronautics let contract to Doyle & Russell, 834 W. 21st, Norfolk, \$198,875, roads, utilities and other portions of expansion of research facilities, Wallops Island.

BLACKSBURG—Virginia Polytechnic Institute let contract to Neale Construction Co., Salem, \$51,500, dairy unit for Agricultural Department.

BOYDTON—Corps of Engineers, Norfolk, let contract to A. A. Holmes Construction Co., Cartersville, Ga., \$148,450, clearing parcel "A," Bugs Island Reservoir Project.

BRUNSWICK COUNTY—Board of Education let contract to Motley Construction Co., Farmville, \$824,870, Negro high school.

COVINGTON—Leggett's Department Store plan building at Maple Ave. and Main St., \$200,000.

CROZET—Acme Viable Records, Inc., plans erection of plant, manufacture of visible film systems and related office equipment, \$400,000.

FARMVILLE—Longwood College received low bid from John W. Daniel, Danville, \$392,506, auditorium and music building.

GRAVELLY POINT—Public Buildings Administration let contract to S. E. Dockstader, Munsey Bldg., Washington, D. C., \$140,000, constructing 10-inch steam line, National Airport.

GRAVELLY POINT—Public Buildings Administration, Washington, D. C., let contract to F. H. Martell Co., 1023-20th, N.W., Washington, D. C., \$103,880, new control tower, National Airport.

HAMPTON—Virginia State School let contract to Harry B. Graham Co., Charlottesville, \$340,193, academic and recreational building.

ISLE OF WIGHT COUNTY—Board of Education let contracts for following schools: Isle of Wight Training School, S. S. Kea, Ivor, \$128,627; Windsor School, C. E. Nuckolls, Richmond, \$76,424.

LYNCHBURG—Board of Education let contract to W. T. Jones Construction Co., 1957 Fort Ave., \$87,916, additions to Fort Hill Elementary School.

NORFOLK—Seay Co., 105 Ladd Ave., will build 3 apartment buildings, W. 39th St., \$90,000.

PETERSBURG—Board of Education let contract to R. H. Wattlinger, Richmond, \$725,000, Peabody-Williams High School.

PORTSMOUTH—Navy Department, Public Works Office, negotiated contract with Portsmouth Gas Co., 512 High Portsmouth, \$160,000, water service, Norfolk Naval Shipyard.

QUANTICO—Navy Department, Public Works Office, let contract to Carter-Hassell Contracting Co., Waco & Naval Base Road, Norfolk, \$37,970, automatic service center, Marine Corps Schools.

RICHMOND—St. Stephens Church, West-hampton, received low bid from Claiborne & Taylor, Inc., \$109,960, alterations and additions to church.

RICHMOND—State Highway Commission let contracts for projects in following counties:

Campbell—US 29, 2.37 mi. reinf. conc. 24-ft. wide, William F. Bowe & Co., Augusta, Ga., \$205,412.

Fauquier—Sec. Rts. 643 and 616, 5.81 mi., W. W. Sanders, Warrenton, \$64,575.

Hanover—Sec. Rt. 620, 3.62 mi., reconstr. and hard-surf., J. R. Ford Co., Inc., Lynchburg, \$36,743.

Campbell—Sec. Rt. 605, 3.53 mi., reconstr. and hard-surf., J. R. Ford Co., Inc., Lynchburg, \$36,588.

RICHMOND—Department of Highways received low bids for projects in following counties:

Giles—Rt. 61, 1.267-ft. bridge and approaches across New River at Narrows; Harvey H. Stewart, Charlotte, N. C., \$466,553.

Culpeper—Rt. 3, 2 railroad overpasses crossing north and southbound tracks of Southern Railroad; Coastal Construction, Inc., Wilmington, N. C., \$58,731.

Montgomery—US 11, overpass across Norfolk and Western Railway tracks; Wiley N. Jackson Co., Inc., Roanoke, \$62,090.

RICHMOND—Department of Highways received low bids for projects in following counties:

Powhatan—US 60, 7.23 mi. 22-ft. macadam highway; Wiley N. Jackson Co., Inc., Roanoke, \$250,473.

Norfolk—Rt. 170, 2.11 mi. dual-lane concrete roadway on Granby St.; Ames & Webb, Inc., Norfolk, \$573,390.

Giles—Sec. Rt. 730, 5.46 mi. reconstr. and hard-surf.; Weston Adams & Tate Construction Co., Roanoke, \$63,244.

Rockbridge—Sec. Rt. 602, 5.84 mi. reconstr. and hard-surf.; Wiley N. Jackson Co., Inc., Roanoke, \$67,375.

Albemarle—Sec. Rts. 692 and 712, 7 mi. reconstr. and hard-surf. on Rt. 712; Richard F. Kline, Frederick, Md., \$92,138.

RICHMOND—Southern Biscuit Co. let contract to Wise Construction Co., Box 547, office, 930 Terminal Place, \$80,000.

RICHMOND—Board of Education let contract to Conquest, Moncure & Dunn, \$344,053, alterations and additions to Helen Dickinson School.

RICHMOND—L. & M. Realty Corp. let contract to Carter-Hassell Contracting Co., store, 3402 Hull St., \$50,000.

RICHMOND—Westover Park, Inc., 505 E. Main St., let contract to B. O. Williams, 21 residences, 2900-21 Lynhaven Ave., \$105,000.

RICHMOND—Division of Motor Vehicles let contract to Hicks & Ingle, 112 E. Sewells Point Road, Norfolk, \$192,450, air-conditioning system in building, 2220 W. Broad St.

RICHMOND—Veterans Administration, Construction Service, Washington, D. C., let contract to Howard-Mitchell Construction Co., 10 W. Cary St., \$46,404, therapeutic pool for paraplegics in Bldg. 327 and alterations to same building, Veterans Hospital.

WAYNESBORO—Tinkling Springs Presbyterian Church plan educational building, \$42,000.

WEST VIRGINIA

WEST VIRGINIA—Bureau of Public Roads apportioned \$91,655 for federal aid highway work.

WEST VIRGINIA—General Services Administration, Washington, D. C., approved post offices, etc., at following locations: Martinsburg, new building, \$930,000; Mount Hope, site and building, \$850,000; Bluefield, new site and building, \$1,055,000; Roncove, building; Muliens, site and building; cost not stated, under \$200,000.

(Continued on page 52)

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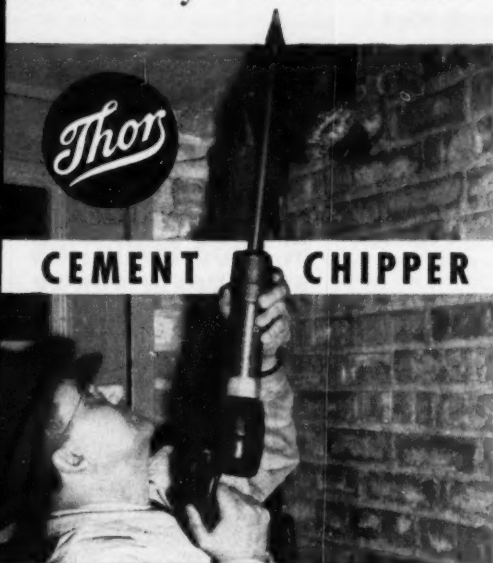
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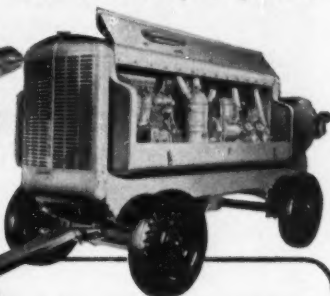
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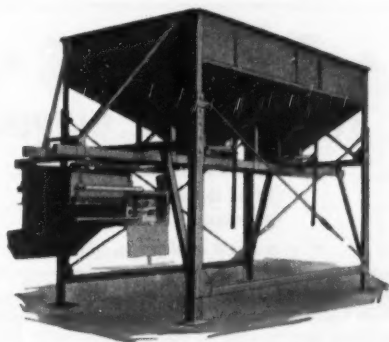
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WEST VIRGINIA PROJECTS

(Continued from page 58)

CLARKSBURG—Clarksburg Sanitary Board received low bids from following for sewage projects:

Contr. No. 1—Intercepting and branch sewers Lower West Fork River, Leo Butler Co., Silver Spring, Md., \$397,044;

Contr. No. 2—Intercepting and branch sewers, Central West Fork River, Leo Butler Co., Silver Spring, Md., \$614,569;

Contr. No. 3—Intercepting and branch sewers, Upper West Fork River, Emil Marcelletti & Son Construction Co., 11160 Willard, Cleveland, Ohio, \$185,260;

Contr. No. 4—Intercepting and branch sewers, Lower Elk Creek, Leo Butler Co., Silver Spring, Md., \$424,622;

Contr. No. 5—Intercepting and branch sewers, Upper Elk Creek, Leo Butler Co., \$340,446;

Contr. No. 6A—sewage treatment plant, primary treatment, Wiley N. Jackson Co., R. F. D. 4, Roanoke, Va., \$1,224,354;

Contr. No. 6B—sewage treatment plant, secondary treatment, Wiley N. Jackson Co., R. F. D. 4, Roanoke, Va., \$539,880;

Contr. No. 6A—electrical work, primary plant, Electric Service Co., Ann Arbor, Mich., \$42,862;

Contr. No. 9B—electrical work, secondary plant, Electric Service Co., Ann Arbor, Mich., \$992;

FAIRMONT—Monongahela Power Co. plans \$12,500,000 addition to Rivesville Power plant, part of \$57,000,000 plant.

CHARLESTON—State Road Commission received low bids for projects in following counties:

Fayette—Proj. No. FI-263(14), Gauley River Bridge, #171; Keeley Construction Co., Clarksburg, \$292,283;

Mercer—Proj. No. 3786, Bramwell Bridge, #1795; J. M. Francesa & Co., Fayetteville, \$36,290;

Wayne—Proj. No. FI-187(16), Pole Creek Cabell County Line Bridge; W. H. Ringwald & Sons, Chillicothe, Ohio, \$357,345;

CHARLESTON—State Road Commission received low bids for projects in following counties:

Wyoming—Proj. No. S-68(3), Welch-Pineville Rd.; Acme Construction Co., Beckley, \$318,812;

Wyoming—Proj. No. 7762, Sun Hill Reedy Rd.; Acme Construction Co., Beckley, \$52,342;

ROANOKE—Roanoke Pipe Line Co. has applied for permission to build 30-mile natural gas line; \$386,000.

CHARLESTON—Building Commission for State of Virginia let contract to J. A. Jones Construction Co., 209 W. 4th, Charlotte, N. C., \$2,271,610, for 8-story office building, Washington St.; Meyer Brothers, 1030 Quarrier, Charleston, have contract at \$102,850 for plumbing and drainage; Harry Dougherty and Sons, Inc., 701-A Virginia W. Charleston, \$585,512 for heating, ventilating and air-conditioning; E. C. Ernst, Inc., 1622—14th, NW, Washington, D. C., \$253,508 for electric and lighting fixtures; Warner Elevator Manufacturing Co., 2613 Spring Grove, Cincinnati, Ohio, \$167,432 for elevators and dumbwaiter.

South's Contracts High

(Continued from page 42)

of Home Builders expect employment will remain high and the year of 1950 will be prosperous, with increases in the cost of housing in the offing if labor costs rise. Current mortgage financing must be maintained, say officials of that organization, and more three-bedroom homes must be built, as well as more economy rental housing.

Home building is headed for new records, says Home Builders Association, but supplies of materials and labor are already strained. Builders are also confronted with the possibility of the government "dumping" construction of an additional \$1,500,000,000 worth of socialized housing on an already "tight" market, they declare. The result will be competitive bidding for the available supply of labor and materials and inflation in housing prices.

A different picture, however, is painted for the southeastern states by the joint cooperative committee of the American Association of State Highway Officials and the Associated General Contractors of America. The highway contracting industry in that area, says the committee, has the capacity to carry out a much greater road construction program than that undertaken in 1949. The most diffi-

cult problem to be overcome is increased financing.

Previously announced forecasts of \$19,000,000,000 still hold on the value of new construction expected in 1950. Private outlays are placed at \$13,100,000,000, a drop of about seven per cent. A slackening of recent unprecedented pace in home building is also seen by the departments of commerce and labor. Public expenditures are to increase about \$925,000,000 to about \$6,100,000,000. Construction of industrial facilities is seen dropping.

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2—TD-18 International Tractors
2—D-7 Caterpillar Tractors TM Series
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10—Model 25FDT Bottom Dump Euclids
12—Model 9FDT Bottom Dump Euclids
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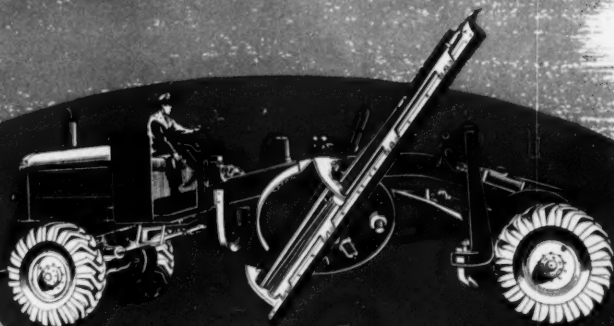
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"99-H"
Master "99"**



With All-Wheel Drive, there are no idling front wheels—no dead front end to consume power and decrease operating efficiency. All weight is on driving wheels—front and rear—contributing 100% to traction and utilizing the full power of the engine.

All-Wheel Steer provides unequalled maneuverability; saves time on every job; makes it possible to work in places where ordinary motor graders cannot go—do things they cannot do.

Yes, there is *no substitute* for All-Wheel Drive and All-Wheel Steer in a motor grader... no way in which any rear drive, front steer machine can equal the maneuverability, power-at-the-blade, and all-around performance of an Austin-Western "88" or "99."

Get the complete story of the many additional features of these outstanding graders from your A-W distributor, or send for the latest bulletins. **AUSTIN-WESTERN COMPANY, AURORA, ILLINOIS, U. S. A.**

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